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EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERAL SECTOR

ONTARIO REGULATION 91/90

MISA
Municipal/Industrial Strategy for Abatement

MAY 1990

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ONTARIO REGULATION
91/90

THE EFFLUENT MONITORING REGULATION FOR THE INDUSTRIAL MINERALS SECTOR

The attached regulation is the MISA sector-specific monitoring regulation for the Industrial Minerals Sector.

The Industrial Minerals Sector Regulation references the General Effluent Monitoring Regulation (O. Reg. 695/88) for the "how to" aspects of the monitoring requirements.

The purpose of the Industrial Minerals Sector Regulation is to establish, over a twelve month period, a data base on effluent quality for the 114 direct dischargers in the Sector. The data base will be used to develop effluent limits for the Sector plants.

The Industrial Minerals Sector Regulation is made up of a number of sections encompassing definitions, purpose, application, selection of sampling points, monitoring requirements, quality control, toxicity testing, flow measurements, reporting and in-force timing and duration.

Effluent-specific monitoring schedules, stating the chemical parameters and their monitoring frequency for each plant site form an integral part of the Regulation.

SUMMARY OF THE PROPOSED EFFLUENT MONITORING REGULATION FOR THE INDUSTRIAL MINERALS SECTOR

The Industrial Minerals Sector Monitoring Regulation involves the following sections or features:

DEFINITIONS

Definitions specified in this section together with those listed in the Effluent Monitoring-General Regulation (O. Reg. 695/88) apply to this Regulation.

PURPOSE

The purpose of the Monitoring Regulation is to establish a data base on effluent quality in the Sector for future limit setting.

APPLICATION

The Industrial Minerals Sector Regulation is stated to apply only to the one hundred and fourteen listed direct discharger plants. Each direct discharger is linked to a site-specific monitoring schedule. Moreover, the monitoring requirements of the Effluent Monitoring-General Regulation are stated to apply also to this regulation.

SAMPLING POINTS

Each direct discharger is required to establish sampling points on the nine effluent stream types listed.

TYPES OF SAMPLES PERMITTED

The types of samples permitted under a variety of circumstances are stated.

THRICE WEEKLY AND MONTHLY MONITORING

The above sampling frequencies are specified in category specific monitoring schedules for each discharger plant together with the parameters to be monitored. The number and type of parameters monitored at each frequency varies with the complexity of each effluent.

CHARACTERIZATION AND OPEN CHARACTERIZATION -- SEMI-ANNUAL AND ANNUAL MONITORING

Characterization for more than one hundred and forty contaminants is required annually or semi-annually on all effluent streams. A further open characterization using gas chromatography/mass spectrometry and plasma techniques is also required at the same time as the characterization analysis.

STORM WATER MONITORING

Site specific monitoring schedules specify the parameters to be monitored at a frequency of no greater than once per month.

QUALITY CONTROL MONITORING

Field sampling quality control is specified at monthly, quarterly and annual frequency. This involves duplicate samples, travelling blank samples and spiked travelling blank samples.

TOXICITY TESTING

Semi-annual and annual fish and Daphnia magna toxicity testing is required on all effluent streams.

FLOW MEASUREMENT

Flow measurement is required at the time of each sampling under this regulation. Methods, devices or calculations for the measurement or estimation of flow must be capable of accuracy to within plus or minus 20 per cent of the actual flow.

REPORTING

Each direct discharger is required to submit an initial report within a specified time frame detailing the site information requested in the Effluent Monitoring-General Regulation or in the Industrial Minerals Sector Regulation itself.

NON-MONITORING PLANTS

Specific monitoring and reporting requirements for plants given the designation of non-monitoring plants are outlined in this section. The requirements are designed to minimize the financial impact of the Industrial Minerals Sector Regulation on the quarry industry.

COMMENCEMENT AND REVOCATION

Sampling under the Industrial Minerals Sector Regulation will commence on August 1, 1990 and will terminate 12 months later. Initial reports are due on May 1, 1990.

REGULATION MADE UNDER
THE ENVIRONMENTAL PROTECTION ACT

EFFLUENT MONITORING - INDUSTRIAL MINERALS SECTOR

Definitions

1.-(1) In this Regulation,

"cement plant effluent" means effluent that results from the manufacturing of cement;

"cement plant effluent sampling point" means a location in a cement plant effluent stream situated,

(a) downstream of any additions from any other effluent stream in the plant,

(b) downstream of any final treatment, and

(c) before the place of discharge to a surface watercourse;

"cement plant effluent stream" means cement plant effluent that flows through an open or closed channel;

"General Effluent Monitoring Regulation" means Ontario Regulation 695/88;

"grab sample" means a volume of effluent of at least 100 millilitres that is collected over a period not exceeding one hour and immediately transferred to the appropriate laboratory sample container as set out in Column 2 of Schedule 2 to the General Effluent Monitoring Regulation and in Column 2 of Schedule L to this Regulation;

"graphite plant effluent" means effluent that results from the processing of graphite;

"graphite plant effluent sampling point" means a location in a graphite plant effluent stream situated,

(a) downstream of any additions from any other effluent stream in the plant,

(b) downstream of any final treatment, and

(c) before the place of discharge to a surface watercourse;

"graphite plant effluent stream" means graphite plant effluent that flows through an open or closed channel;

"gypsum plant effluent" means effluent that results from the processing of gypsum;

"gypsum plant effluent sampling point" means a location in a gypsum plant effluent stream situated,

(a) downstream of any additions from any other effluent stream in the plant,

(b) downstream of any final treatment, and

(c) before the place of discharge to a surface watercourse;

"gypsum plant effluent stream" means gypsum plant effluent that flows through an open or closed channel;

"Industrial Minerals Sector" means the plants listed in Schedule A;

"lime plant effluent" means effluent that results from the manufacturing of lime;

"lime plant effluent sampling point" means a location in a lime plant effluent stream situated,

(a) downstream of any additions from any other effluent stream in the plant,

(b) downstream of any final treatment, and

(c) before the place of discharge to a surface watercourse;

"lime plant effluent stream" means lime plant effluent that flows through an open or closed channel;

"magnesium plant effluent" means effluent that results from the manufacturing of magnesium;

"magnesium plant effluent sampling point" means a location in a magnesium plant effluent stream situated,

(a) downstream of any additions from any other effluent stream in the plant,

(b) after any final treatment, and

(c) before the place of discharge to a surface watercourse;

"magnesium plant effluent stream" means magnesium plant effluent that flows through an open or closed channel;

"minewater" means liquid and associated material from an underground mine that is discharged, directly or indirectly, to a surface watercourse;

"minewater sampling point" means a location in a minewater effluent stream situated,

(a) downstream of any additions from any other effluent stream in the plant,

(b) after any final treatment, and

(c) before the place of discharge to a surface watercourse;

"minewater effluent stream" means minewater that flows through an open or closed channel;

"quarry water" means liquid and associated material from a quarry that is discharged, directly or indirectly, to a surface watercourse;

"quarry water sampling point" means a location in a quarry water effluent stream situated,

(a) downstream of any additions from any other effluent stream in the plant,

(b) after any final treatment, and

(c) before the place of discharge to a surface watercourse;

"quarry water effluent stream" means quarry water that flows through an open or closed channel;

"storm event", in relation to a plant, means a rainfall or series of rainfalls sufficient to create an effluent stream at the plant;

"wash water" means liquid and associated material that results from the washing of sand, gravel or crushed stones and that is discharged, directly or indirectly, to a surface watercourse;

"wash water sampling point" means a location in a wash water effluent stream situated,

(a) downstream of any additions from any other effluent stream in the plant,

(b) after any final treatment, and

(c) before the place of discharge to a surface watercourse;

"wash water effluent stream" means wash water that flows through an open or closed channel.

(2) The definitions in section 1 of the General Effluent Monitoring Regulation that are not redefined in this Regulation apply to this Regulation.

(3) Where a term is defined in this Regulation and in the General Effluent Monitoring Regulation, the definition in this Regulation applies to the General Effluent Monitoring Regulation in so far as that Regulation governs plant to which this Regulation applies.

(4) A reference in this Regulation to a column of a category-specific monitoring schedule for a stream is a reference to a column headed by that stream's type.

Purpose

2. The purpose of this Regulation is to establish a data base on effluent quality in the Industrial Minerals Sector that will be used, along with other pertinent information, to develop effluent limits for that sector.

Application

3.-(1) This Regulation applies only with respect to the plants listed in Schedule A and only with respect to the effluent streams on which sampling points are established under section 4.

(2) For the purposes of this Regulation, the plants with respect to which this Regulation applies are divided into categories as set out in Schedule A.

(3) The category-specific monitoring schedule for each plant is as set out in Schedule A.

(4) Sections 3 to 7 of the General Effluent Monitoring Regulation and sections 4 to 14 of this Regulation do not apply in respect of plants in the Non-Monitoring Plants Category.

(5) A direct discharger whose plant is in the Quarries or Sand and Gravel Category who demonstrates to the Director, by

means of a written report, that the total volume of effluent discharged from the plant on each day during the period beginning on the 1st day of March, 1990 and ending on the 31st day of May, 1990 is less than 50,000 litres, need not comply with the requirements of sections 3 to 7 of the General Effluent Monitoring Regulation and sections 4 to 15 of this Regulation in respect of that plant.

(6) The report referred to in subsection (5) shall be certified by a professional engineer of the Province of Ontario and shall be submitted by the 30th day of June, 1990.

(7) This Regulation is a Sectoral Effluent Monitoring Regulation within the meaning of the General Effluent Monitoring Regulation.

(8) Each direct discharger shall carry out the monitoring obligations, including the sampling, analysis, toxicity testing, flow measurement, recording and reporting obligations of this Regulation, in accordance with the General Effluent Monitoring Regulation and in accordance with Schedules L and M to this Regulation.

(9) An obligation on a direct discharger to do a thing under this Regulation is discharged if another person has done it on the direct discharger's behalf.

(10) A direct discharger who for any period of time does not discharge an effluent is exempt, for that period, from the requirements of this Regulation that pertain to that effluent.

(11) Subsection 3(29) of the General Effluent Monitoring Regulation does not apply where a direct discharger is governed by this Regulation.

(12) In addition to complying with subsection 3(19) of the General Effluent Monitoring Regulation, each direct discharger shall use only sampling equipment for the collection of samples, the wettable surfaces of which are made of fluorocarbon resins, glass, stainless steel, high or low density polyethylene, polyethylene terephthalate, polystyrene or polypropylene for samples that are to be analyzed for parameters in analytical test groups IM1, IM3 and IM4 as set out in Schedule B.

(13) Despite subsection (12), a direct discharger may use sampling devices that contain a short section of surgical grade silicone rubber tubing or other tubing approved by the Director if such tubing cannot be replaced by a material mentioned in subsection (12) without impairing the operation of the device.

(14) Each direct discharger shall collect each sample to be analyzed for the parameter in analytical test group IM2 as set

out in Schedule B directly into a plastic container that has never been used before.

(15) For the purposes of subsections 3(22), (25a) and (26) of the General Effluent Monitoring Regulation,

(a) a sample collected for analysis for parameters in more than one analytical test group as set out in Schedule B to this Regulation is deemed to be a sample collected for analysis for parameters in more than one analytical test group in Schedule 1 to the General Effluent Monitoring Regulation; and

(b) a laboratory sample container specified in Column 2 of Schedule L to this Regulation is deemed to be a laboratory sample container specified in Column 2 of Schedule 2 to the General Effluent Monitoring Regulation.

(16) Instead of the minimum sample volumes specified in Column 5 of Schedule L, a direct discharger may, in relation to a sample to be analyzed, submit to the laboratory performing the analysis the minimum sample volume required by the laboratory to meet the analytical method detection limits set out in Column 6 of Schedule M.

Sampling Points

4.-(1) Each direct discharger shall establish a sampling point on each effluent stream in the discharger's plant, as follows:

1. A cement plant effluent sampling point on each cement plant effluent stream.
2. A lime plant effluent sampling point on each lime plant effluent stream.
3. A graphite plant effluent sampling point on each graphite plant effluent stream.
4. A gypsum plant effluent sampling point on each gypsum plant effluent stream.
5. A magnesium plant effluent sampling point on each magnesium plant effluent stream.
6. A minewater sampling point on each minewater effluent stream.

7. A quarry water sampling point on each quarry water effluent stream.

8. A storm water sampling point on each storm water effluent stream.

9. A wash water sampling point on each wash water effluent stream.

(2) Each direct discharger shall use the sampling points established under subsection (1) for all sampling required by this Regulation, except that a discharger may use alternate sampling points where that is acceptable to the Director.

Sampling Principles

5.-(1) In this section, "calculated retention time", in relation to an effluent stream, means the period of time in days that results from dividing the average daily flow, expressed in cubic metres, of that stream from any settling pond into the total available volume, expressed in cubic metres, of the settling pond.

(2) For the purpose of calculating a calculated retention time, each direct discharger shall obtain the average daily flow of a stream by averaging the daily flow of the stream over any thirty operating days.

(3) For the purpose of calculating a calculated retention time, each direct discharger shall measure or estimate the daily flow of a stream at a location or set of locations representative of the flow of the stream, using only methods, devices and calculations that are capable of accuracy to within plus or minus 20 per cent of the actual flow.

(4) For the purposes of this Regulation, a calculated retention time must be calculated on or before the day on which the direct discharger is required to submit an initial report under subsection 14(1).

(5) Subject to subsections (6) to (9), each direct discharger shall collect each sample required to be collected by this Regulation,

(a) by one of the means described in clause 3(4)(a), (c) or (e) of the General Effluent Monitoring Regulation; or

(b) by taking three equal volume grab samples at intervals of at least two hours over an operating day and combining them manually.

(6) Where the calculated retention time in relation to an effluent stream from a plant in the Quarries or Sand and Gravel Category is one day or more, a direct discharger may collect each sample required to be collected from that stream as a single grab sample.

(7) A direct discharger may collect each sample required to be collected from a storm water sampling point as a single grab sample.

(8) Subsections (6) and (7) do not apply in respect of samples collected under section 9 or 10.

(9) Where a direct discharger collects a sample for analysis for one or more parameters in analytical test groups 15 to 18 and 28a as set out in Schedule B, the sample shall consist of three equal volume grab samples taken at intervals of at least two hours over an operating day.

(10) Each direct discharger shall combine grab samples collected as a sample in accordance with subsection (9) for analysis for parameters in analytical test group 15, as set out in Schedule B, in the laboratory immediately before analysis.

(11) Each direct discharger shall combine grab samples collected as a sample in accordance with subsection (9) for analysis for parameters in analytical test groups 16 to 18 and 28a, as set out in Schedule B, in a purge vessel in the laboratory immediately before analysis.

Thrice Weekly Monitoring

6.-(1) On three operating days in each week, each direct discharger shall collect a set of samples from each sampling point, other than storm water sampling points, of the discharger, sufficient to perform the analyses required by subsection (3).

(2) Where the calculated retention time, within the meaning of section 5, in relation to an effluent stream from a plant in the Quarries or Sand and Gravel Category is one day or more, a direct discharger may collect a set of samples from the sampling point on that stream on one operating day in each week, instead of at the frequency set out in subsection (1).

(3) Each direct discharger shall analyze each set of samples collected under subsections (1) and (2) for the parameters indicated in the column marked "3W", for the stream from which the set was collected, of the category-specific monitoring schedule for the discharger's plant.

(4) For the purpose of subsection (1), samples collected from a sampling point after the first sample is collected from that sampling point under subsection (1) shall be collected no sooner than twenty-four hours after the previous sampling under subsection (1) from that sampling point.

(5) For the purpose of subsection (2), samples collected from a sampling point after the first sample is collected from that sampling point under subsection (2) shall be collected no sooner than three days after the previous sampling under subsection (2) from that sampling point.

Monthly Monitoring

7.-(1) On one operating day in each month, each direct discharger shall collect a set of samples from each sampling point, other than storm water sampling points, of the discharger, sufficient to perform the analyses required by subsection (2).

(2) Each direct discharger shall analyze each set of samples collected under subsection (1) for the parameters indicated in the column marked "M", for the stream from which the set was collected, of the category-specific monitoring schedule for the discharger's plant.

(3) For the purpose of subsection (1), samples collected from a sampling point after the first sample is collected from that sampling point under subsection (1) shall be collected no sooner than fifteen days after the previous sampling under subsection (1) from that sampling point.

(4) Each set of samples collected under subsection (1) shall be collected on a day on which a sample is collected under subsection 6(1) or (2) from the same sampling point.

(5) Samples collected under subsection (1) at the plant referred to in Schedule A as the Lime Plant at Spragge, Ontario need not be analyzed for the parameter ammonia plus ammonium in analytical test group 4a as set out in Schedule B.

(6) Samples collected under subsection (1) at a plant in the Chemical Lime Category, other than the plant referred to in Schedule A as the Lime Plant at Spragge, Ontario, need not be analyzed for the parameter copper in analytical test group 9 as set out in Schedule B or for the parameters in analytical test groups 14 and 20 as set out in Schedule B.

(7) Samples collected under subsection (1) at a plant in the Quarries Category, other than the plant referred to in Schedule A as the Traprock Quarry Processing Plant at Havelock, Ontario,

need not be analyzed for the parameters in analytical test group 16 as set out in Schedule B.

Monthly Monitoring - Storm Water

8.-(1) On one operating day in each month, each direct discharger shall collect a set of samples from each storm water sampling point of the discharger, sufficient to perform the analyses required by subsection (3).

(2) A direct discharger for a plant in the Clay & Shale Category who has been unable to collect a set of samples from a storm water sampling point at the plant in any month as required by subsection (1), because of insufficient flow throughout the month, shall, as soon as possible, collect a compensating set of samples from that sampling point, on an operating day on which a set of samples is not collected under subsection (1) from that sampling point, sufficient to perform the analyses required by subsection (3).

(3) Each direct discharger shall analyze each set of samples collected under subsections (1) and (2) for the parameters indicated in the column marked "M" for the stream from which the set was collected, of the category-specific monitoring schedule for the discharger's plant.

(4) For the purpose of subsection (2), no more than two sets of compensating samples need be collected in any one month.

Semi-Annual and Annual Monitoring

9.-(1) Subject to subsections (2) to (4), on one operating day in the period beginning on the 1st day of August, 1990 and ending on the 31st day of January, 1991 and on one operating day in the period beginning on the 1st day of February, 1991 and ending on the 31st day of July, 1991, each direct discharger shall collect a set of samples from each sampling point of the discharger, sufficient to perform the analyses required by subsection (5).

(2) Subsection (1) does not apply in respect of plants in the Quarries or Sand and Gravel Category, other than the plant referred to in Schedule A as the Traprock Quarry Processing Plant at Havelock, Ontario.

(3) Subject to subsection (4), on one operating day in the period beginning on the 1st day of August, 1990 and ending on the 31st day of July, 1991, each direct discharger for a plant in respect of which subsection (1) does not apply shall collect a

set of samples from each sampling point at the plant, sufficient to perform the analyses required by subsection (5).

(4) Except in the case of plants in the Clay and Shale Category, subsections (1) and (3) do not apply in respect of storm water sampling points.

(5) Each direct discharger shall analyze each set of samples collected under subsections (1) and (3) for the parameters indicated in the column marked "SA/A", for the stream from which the set was collected, of the category-specific monitoring schedule for the discharger's plant.

(6) Samples collected at a plant under subsection (1) or (3) need not be analyzed for the parameters in analytical test group 27 as set out in Schedule B if,

(a) polychlorinated biphenyls are neither stored nor used at the plant; and

(b) neither garbage nor solvents are incinerated in a kiln at the plant.

(7) For the purpose of subsection 4(3) of the General Effluent Monitoring Regulation, samples collected under subsections (1) and (3) are collected for characterization.

(8) For the purpose of subsection (1), samples collected from a sampling point after the first sample is collected from that sampling point under subsection (1) shall be collected no sooner than forty-five days after the previous sampling under subsection (1) from that sampling point.

(9) Each set of samples collected under subsections (1) and (3) shall be collected on a day on which a sample is collected under subsection 7(1) or 8(1) from the same sampling point.

Monitoring for Parameters in Analytical Test Group 24

10.-(1) Subject to subsections (2) to (4), on one operating day during the period beginning on the 1st day of August, 1990 and ending on the 31st day of July, 1991, each direct discharger shall collect a set of samples from each sampling point of the discharger and shall analyze each set for the parameters in analytical test group 24 as set out in Schedule B.

(2) Except in the case of plants in the Clay and Shale Category, subsection (1) does not apply in respect of storm water sampling points.

(3) Subsection (1) does not apply in respect of a plant, other than a plant in the Clay and Shale Category, if,

(a) during the period beginning on the 1st day of October, 1988 and ending on the 31st day of January, 1989, a direct discharger collected a set of samples from each effluent stream at the plant, other than storm water effluent streams, analyzed each such set for the parameters in analytical test group 24 as set out in Schedule B, and reported the results of those analyses to the Municipal and Industrial Strategy for Abatement Office of the Ministry of the Environment; and

(b) neither garbage nor solvents are incinerated in a kiln at the plant.

(4) Subsection (1) does not apply in respect of a plant in the Clay and Shale Category, if,

(a) during the period beginning on the 1st day of October, 1988 and ending on the 31st day of January, 1989, a direct discharger collected a set of samples from each storm water effluent stream at the plant, analyzed each such set for the parameters in analytical test group 24 as set out in Schedule B, and reported the results of those analyses to the Municipal and Industrial Strategy for Abatement Office of the Ministry of the Environment; and

(b) neither garbage nor solvents are incinerated in a kiln at the plant.

(5) For the purpose of subsection 4(3) of the General Effluent Monitoring Regulation, samples collected under subsection (1) are collected for characterization.

(6) Each set of samples collected under subsection (1) shall be collected on a day on which a sample is collected under subsection 7(1) or 8(1) from the same sampling point.

Quality Control Monitoring

11.-(1) For the purpose of this section, each direct discharger shall select one effluent stream for each plant of the discharger.

(2) Except in the case of a plant in the Clay and Shale Category, a direct discharger shall not select a storm water effluent stream under subsection (1).

(3) Except in the case of a plant in the Clay and Shale Category, once in each month, on the day on which samples are collected under section 7 from the sampling point on the effluent stream selected under subsection (1) for a plant, each direct discharger for the plant shall collect a duplicate sample for each sample collected on that day from that sampling point under section 6, and shall analyze the set of duplicate samples for the parameters indicated in the column marked "3W", for the stream from which the set was collected, of the category-specific monitoring schedule for the discharger's plant.

(4) Once in each quarter, on a day on which samples are collected under section 7 or 8 from the sampling point on the effluent stream selected under subsection (1) for a plant, each direct discharger for the plant shall collect a duplicate sample for each sample collected on that day from that sampling point under sections 7 and 8, and shall analyze the set of duplicate samples for the parameters indicated in the column marked "M", for the stream from which the set was collected, of the category-specific monitoring schedule for the discharger's plant.

(5) Once in each quarter, on the day on which duplicate samples are collected under subsection (4) at a plant, each direct discharger for the plant shall prepare a travelling blank sample and a travelling spiked blank sample for each sample collected on that day under sections 7 and 8 from the sampling point on the effluent stream selected under subsection (1), and shall analyze the set of travelling blank samples and the set of travelling spiked blank samples for the parameters in analytical test groups 16 to 20 indicated in the column marked "M", for the stream from which the samples for which the travelling blank samples and travelling spiked blank samples were prepared were collected, of the category-specific monitoring schedule for the discharger's plant.

(6) Once, on a day on which samples are collected under section 7 or 8 from the sampling point on the effluent stream selected under subsection (1) for a plant, each direct discharger for the plant shall prepare a travelling blank sample and a travelling spiked blank sample for each sample collected on that day from that sampling point under section 9, and shall analyze the set of travelling blank samples and the set of travelling spiked blank samples for the parameters in analytical test groups 16 and 20 indicated in the column marked "SA/A", for the stream from which the samples for which the travelling blank samples and travelling spiked blank samples were prepared were collected, of the category-specific monitoring schedule for the discharger's plant.

Toxicity Testing

12.-(1) Subject to subsections (2) to (4), each direct discharger shall collect a sample from each sampling point of the discharger, once in the month of August, 1990 and once in the month of November, 1990, and shall perform a fish toxicity test and a Daphnia magna acute lethality toxicity test on each sample.

(2) Subsection (1) does not apply in respect of plants in the Quarries or Sand and Gravel Category, other than the plant referred to in Schedule A as the Traprock Quarry Processing Plant at Havelock, Ontario.

(3) Subject to subsection (4), each direct discharger for a plant in respect of which subsection (1) does not apply shall collect a sample from each sampling point of the discharger, once in the period beginning on the 1st day of August, 1990 and ending on the 30th day of November, 1990, and shall perform a fish toxicity test and a Daphnia magna acute lethality toxicity test on each sample.

(4) Except in the case of plants in the Clay and Shale Category, subsections (1) and (3) do not apply in respect of storm water sampling points.

(5) Each set of samples collected under subsections (1) and (3) shall be collected on a day on which a sample is collected under section 7 or 8 from the same sampling point.

(6) If any fish toxicity test performed by a direct discharger under subsection (1) or (3) on samples from a sampling point results in mortality for more than two out of ten fish, the discharger shall thereafter collect a sample from that sampling point once in each month, and shall perform a fish toxicity test and a Daphnia magna acute lethality toxicity test on each sample.

(7) In the case of a plant in the Quarries or Sand and Gravel Category, other than the plant referred to in Schedule A as the Traprock Quarry Processing Plant at Havelock, Ontario, a direct discharger need only fulfill the requirements of subsection (6) during three months.

Flow Measurement

13.-(1) Each direct discharger shall, at the time of each sampling under sections 6 to 10 from an effluent stream of the discharger, measure or estimate the flow of the stream at a location or set of locations representative of the flow at the sampling point established under section 4 for the stream, and shall record the measured or estimated data.

(2) Despite subsection 6(4) of the General Effluent Monitoring Regulation, where a direct discharger collects a sample from an effluent stream in accordance with clause 5(5)(a) on an operating day, the discharger shall fulfill the requirement under subsection (1) to measure or estimate the flow of that stream at the time of that sampling by measuring or estimating the flow of that stream at least three times over the course of the part of the operating day during which the stream is discharging effluent, at intervals of at least two hours.

(3) Each direct discharger shall use only methods, devices and calculations for the measurement or estimation of the flow of an effluent stream that are capable of accuracy to within plus or minus 20 per cent of the actual flow.

Reporting

14.-(1) Each direct discharger shall submit an initial report to the Director in respect of each plant of the discharger, by the 1st day of May, 1990.

(2) Each direct discharger shall ensure that the plans submitted under paragraph 1 of subsection 7(1) of the General Effluent Monitoring Regulation identify by type each effluent stream on which the discharger establishes a sampling point under section 4.

(3) In addition to meeting the requirements of subsection 7(1) of the General Effluent Monitoring Regulation, each direct discharger shall include the following information in the initial report:

1. An estimate of the quantity in tonnes of final product expected to be produced at the plant during the period beginning on the 1st day of August, 1990 and ending on the 31st day of July, 1991.

2. A statement specifying the types of chemical, including chemical explosives, lubricants, coolants and pigments, expected to be used or stored at the plant during the period beginning on the 1st day of August, 1990 and ending on the 31st day of July, 1991, and specifying a trade name or chemical name for each type of chemical.

3. A statement of each calculated retention time to be relied on in accordance with sections 5 and 6, together with documentation sufficient to satisfy the Director that each method, device and

calculation used to measure or estimate the flow of an effluent stream for the purpose of calculating a calculated retention time, meets the accuracy requirement of subsection 5(3).

(4) Each direct discharger shall report any significant changes to the information submitted under subsections (1) to (3) to the Director in writing within thirty days after the end of the month during which the change occurs, including any redirection of or change in the type of an effluent stream on which the discharger establishes a sampling point under section 4.

(5) For the purposes of subsection (2) and (4), effluent stream types are the types mentioned in subsection 4(1).

(6) Each direct discharger shall notify the Director in writing of any change of name or ownership of a plant of the discharger occurring after the 7th day of February, 1990, within thirty days after this Regulation comes into force or within thirty days after the change.

(7) Each direct discharger shall, no later than thirty days after the event, notify the Director in writing of any process change that occurs after the day this Regulation comes into force and that may adversely affect the quality of the effluent in any effluent stream on which the discharger establishes a sampling point under section 4.

(8) Each direct discharger shall report to the Director the results of all analyses performed by or on behalf of the discharger under sections 6 to 11 of this Regulation, including all positive numerical values at or above the analytical method detection limits calculated by the laboratory performing the analysis, together with the date on which each sample was collected and the method used to collect each sample.

(9) Each direct discharger shall, in accordance with subsection 7(6) of the General Effluent Monitoring Regulation, report to the Director the toxicity test information obtained under section 12, together with the date on which each sample was collected under section 12.

(10) The information required to be reported under subsection (9) constitutes results of analyses within the meaning of subsection 7(2) of the General Effluent Monitoring Regulation.

(11) Each direct discharger shall report to the Director the flow measurement information recorded under subsection 13(1), together with the date on which each flow was measured or estimated.

(12) In the case of each plant that has a storm water effluent stream, each direct discharger shall report the date of each storm event that occurs during the period beginning on the 1st day of August, 1990 and ending on the 31st day of July, 1991, within sixty days after the storm event.

(13) Subsection (12) does not apply with respect to plants in the Clay and Shale Category.

(14) Within thirty days after the end of each quarter, each direct discharger shall submit to the Director, in writing, a flow discharge report estimating the total discharge to a surface watercourse of each effluent stream of the discharger for each month during the quarter.

(15) A direct discharger need only fulfill the requirements of subsection (14) in respect of months in the period beginning on the 1st day of August, 1990 and ending on the 31st day of July, 1991.

(16) Each direct discharger shall, with respect to each method, device and calculation to be used to measure or estimate the flow of an effluent stream under subsection 13(1), submit to the Director, no later than thirty days before the first use of the method, device or calculation, documentation sufficient to satisfy the Director that the method, device or calculation meets the accuracy requirement of subsection 13(3).

(17) Each direct discharger shall submit to the Director, at least thirty days before the first day of each month, a written schedule of intended sampling dates by sampling point location for all sampling to be done under sections 7 to 10.

(18) Each direct discharger shall make every reasonable effort to follow the schedule submitted by the discharger under subsection (17) but if the schedule cannot be followed as submitted, the discharger shall notify the Director promptly of any change in dates.

(19) Each direct discharger shall keep records of all sampling required by this Regulation, including, for each sample, the date and time of collection, the sampling procedures used, the amount of sample dilution by preservative if dilution exceeds 1 per cent, and any incident likely to affect an analytical result.

(20) Each direct discharger shall record the results of all maintenance and calibration performed on sampling equipment used in meeting the requirements of this Regulation.

(21) Each direct discharger shall keep records of all analytical methods used in meeting the requirements of this Regulation.

(22) Each direct discharger shall submit a written report to the Director detailing the date, duration and cause of each sampling, toxicity testing, analytical and flow measurement malfunction or problem that interferes with fulfilling the requirements of this Regulation, together with a description of any remedial action taken, within thirty days after end of the month in which the malfunction or problem occurs.

(23) Each direct discharger shall keep all records and reports required by this Regulation to be kept or made, for a period of two years following the date of the last report submitted to the Director under this section.

Non-Monitoring Plants

15.-(1) Each direct discharger whose plant is in the Non-Monitoring Plants Category shall submit to the Director, by the 1st day of May, 1990, a written report on the plant including the following information:

1. A plot plan or plans of the discharger's plant, along with supporting text, showing the location of all processing areas, waste disposal sites, effluent streams from all developed onsite and offsite areas, intakes, emergency overflows, storm drainage areas and points of effluent discharge to surface watercourses.

2. A simplified overview block diagram of the plant, including all settling ponds and wastewater streams.

3. An estimate of the quantity in tonnes of crushed stone expected to be produced at the plant during the period beginning on the 1st day of August, 1990 and ending on the 31st day of July, 1991.

4. A statement specifying the types of chemical, including chemical explosives, lubricants, coolants and pigments, expected to be used or stored at the plant during the period beginning on the 1st day of August, 1990 and ending on the 31st day of July, 1991, and specifying a trade name or chemical name for each type of chemical.

(2) Each direct discharger whose plant is in the Non-Monitoring Plants Category shall notify the Director in writing

of any change of name or ownership of its plant occurring after the 7th day of February, 1990, within thirty days after this Regulation comes into force, or within thirty days after any such change.

(3) Each direct discharger whose plant is in the Non-Monitoring Plants Category shall report in writing to the Director the results of all flow measurements and estimations and of all chemical analyses required to be done at the plant, during the period beginning on the 1st day of August, 1990 and ending on the 31st day of July, 1991, by a permit to take water given under section 20 of the Ontario Water Resources Act or by an approval given under section 24 of the Ontario Water Resources Act, within thirty days after making the measurement, estimation or analysis.

Commencement

16.-(1) This Regulation, except sections 6 to 13, comes into force on the day on which it is filed.

(2) Sections 6 to 13 come into force on the 1st day of August, 1990.

Revocation

17.-(1) Sections 6 to 13 are revoked on the 1st day of August, 1991.

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE A

ITEM	PLANT	LOCATION	OWNER AS OF FEBRUARY 7, 1990	CATEGORY-SPECIFIC MONITORING SCHEDULE
CEMENT CATEGORY				
1	Cement Plant	Mississauga, Ontario	St. Lawrence Cement Inc.	C
2	Cement Plant/Limestone Quarry	Bath, Ontario	Lafarge Canada Inc.	C
3	Cement Plant/Limestone Quarry	Woodstock, Ontario	Lafarge Canada Inc.	C
4	Cement Plant/Limestone Quarry	Picton, Ontario	Lake Ontario Cement Limited	C
5	Cement Plant/Limestone Quarry	Bowmanville, Ontario	St. Marys Cement Corporation	C
6	Cement Plant/Limestone Quarry	St. Marys, Ontario	St. Marys Cement Corporation	C
CHEMICAL LIME CATEGORY				
7	Chemical Lime Works	Ingersoll, Ontario	Steico Inc.	D
8	East Plant	Beachville, Ontario	Beachvilime Limited	D
9	Guelph DoLime Ltd	Guelph, Ontario	Beachvilime Limited	D
10	Lime Plant	Spragge, Ontario	Reiss Lime Company of Canada, Limited	D
11	Steetley Lime and Aggregates	Dundas, Ontario	Steetley Quarry Products Inc.	D
12	West Plant	Beachville, Ontario	Beachvilime Limited	D

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE A

ITEM	PLANT	LOCATION	OWNER AS OF FEBRUARY 7, 1990	CATEGORY-SPECIFIC MONITORING SCHEDULE
CLAY AND SHALE CATEGORY				
13	Brick Plant/Clay Pit	Brampton, Ontario	Brampton Brick Limited	E
14	Brick Plant/Clay Pit	Burlington, Ontario	Canada Brick Company Limited	E
15	Brick Plant/Clay Pit	Cooksville, Ontario	Canada Brick Company Limited	E
16	Brick Plant/Clay Pit	Gloucester, Ontario	Canada Brick Company Limited	E
17	Brick Plant/Clay Pit	Streetsville, Ontario	Canada Brick Company Limited	E
GRAPHITE CATEGORY				
18	Graphite Mine/Mill	Kearney, Ontario	Cal Graphite Corporation	F
GYPSUM CATEGORY				
19	Gypsum Mine	Drumbo, Ontario	Westroc Industries Limited	G
20	Gypsum Mine/Processing Plant	Hagersville, Ontario	CGC [redacted] Inc.	G
21	Gypsum Mine/Processing Plant	Caledonia, Ontario	Domtar Inc. Domtar Gypsum Division	G
MAGNESIUM CATEGORY				
22	Dolomite Quarry/Magnesium Plant	Haley Station, Ontario	Timminco Limited	H

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE A

ITEM	PLANT	LOCATION	OWNER AS OF FEBRUARY 7, 1990	CATEGORY-SPECIFIC MONITORING SCHEDULE
QUARRIES CATEGORY				
23	Amherstburg Quarry	Amherstburg, Ontario	Amherst Quarries (1969) Limited	I
24	Boyce Quarry	Gloucester, Ontario	The Warren Paving and Materials Group Limited	I
25	Carden Quarry	Carden Twp., Ontario	Gormley Aggregates Ltd.	I
26	Cornwall Quarry	Cornwall, Ontario	Permanent Concrete Limited	I
27	Dufferin Quarry	Milton, Ontario	St. Lawrence Cement Inc. Dufferin Aggregates Division	I
28	Eglinburg Quarry	Kingston, Ontario	Cruickshank Construction Ltd.	I
29	Fallowfield Quarry	Nepean, Ontario	R.W. Tomlinson Holdings Inc.	I
30	Flamboro Quarry	Flamborough, Ontario	Flamboro Quarries Limited	I
31	North & South (Francon) Quarries	Gloucester, Ontario	Lafarge Canada Inc. Francon Ottawa Division	I
32	R.E. Law Quarry	Port Colborne, Ontario	Hard Rock Paving Co. Limited	I
33	L'Orignal Quarry	L'Original, Ontario	Bertrand & Frere Construction Company, Limited	I
34	MacLeod Quarry	Cornwall, Ontario	Cornwall Gravel Company Limited	I
35	Milton Quarry	Milton, Ontario	Milton Limestone Division of LAC Minerals Ltd.	I

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE A

ITEM	PLANT	LOCATION	OWNER AS OF FEBRUARY 7, 1990	CATEGORY-SPECIFIC MONITORING SCHEDULE
QUARRIES CATEGORY (continued)				
36	Nelson Quarry	Burlington, Ontario	Steed and Evans Limited and Lafarge Canada Inc., operating as Nelson Aggregate Co.	I
37	Nepheline Syenite Quarry/ Processing Plant	Nephton, Ontario	Indusmin Limited	I
38	Richler Quarry	Cambridge Twp., Ontario	Cornwall Gravel Company Limited	I
39	Ridgemount Quarries Ltd.	Fort Erie, Ontario	Walker Industries Holdings Limited	I
40	Traprock Quarry Processing Plant	Havelock, Ontario	3M Canada Inc.	I
41	Uhthoff Quarry	Uhthoff, Ontario	Steed and Evans Limited and Lafarge Canada Inc., operating as Nelson Aggregate Co.	I
42	Waubaushene Quarry	Coldwater, Ontario	Allan G. Cook Limited	I
SAND AND GRAVEL CATEGORY				
43	Foley Research Centre	Foley Township	James Bay Kaolin Corp.	J
44	Kam Sand and Gravel Pit	Kaministiqua, Ontario	Kam Aggregates Limited	J
45	Frank Kling Sand and Gravel Pit	Seaforth, Ontario	Frank Kling Limited	J
46	Lempiala Sand and Gravel Pit	Thunder Bay, Ontario	Lempiaia Sand & Gravel Limited	J
47	Standard Aggregates Sand and Gravel Pit	Guelph, Ontario	Standard Aggregates Inc.	J

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE A

ITEM	PLANT	LOCATION	OWNER AS OF FEBRUARY 7, 1990	CATEGORY-SPECIFIC MONITORING SCHEDULE
TALC CATEGORY				
48	Henderson Mine	Madoc, Ontario	Canada Talc Limited	K
49	Penhorwood Mine Site	Timmins, Ontario	Luzenac Inc.	K
NON-MONITORING PLANTS CATEGORY				
50	Acton Quarry (Non-monitoring plant)	Acton, Ontario	United Aggregates Ltd.	N/A
51	Arnprior Quarry (Non-monitoring plant)	Arnprior, Ontario	Smiths Construction Company Arnprior Limited	N/A
52	Battersea Quarry (Non-monitoring plant)	Storrington Twp., Ontario	Griffin Bros. (Ganonoque) Limited	
53	Beckwith Twp. Quarry (Non-monitoring plant)	Beckwith Twp., Ontario	Dechan Construction Ltd.	N/A
54	Brechin Quarry (Non-monitoring plant)	Brechin, Ontario	The Markham Sand and Gravel Limited	N/A
55	Brechin Quarry (Non-monitoring plant)	Brechin, Ontario	Standard Aggregates Inc.	N/A
56	Brockville Quarry (Non-monitoring plant)	Elizabethtown, Ontario	Permanent Concrete Limited	N/A
57	Broken Front Quarry (Non-monitoring plant)	Twp. of Mara, Ontario	Fowler Construction Company Limited	N/A

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE A

ITEM	PLANT	LOCATION	OWNER AS OF FEBRUARY 7, 1990	CATEGORY-SPECIFIC MONITORING SCHEDULE
NON-MONITORING PLANTS CATEGORY (continued)				
58	Buckhorn Quarry (Non-monitoring plant)	Buckhorn, Ontario	Gormley Aggregates Ltd.	N/A
59	Buke Quarry (Non-monitoring plant)	Haileybury, Ontario	Dymond Clay Products Ltd.	N/A
60	Clarence Twp. Quarry (Non-monitoring plant)	Clarence Twp., Ontario	H.J. McFarland Construction Company Limited	N/A
61	Coboconk Quarry (Non-monitoring plant)	Coboconk, Ontario	Cedarhurst Quarries and Crushing Limited	N/A
62	Leslie Cruickshank (Non-monitoring plant)	Lancaster, Ontario	Cruickshank Contruction Ltd.	N/A
63	Dibblee Construction Ltd. (Non-monitoring plant)	Goulbourn Twp., Stittsville, Ontario	The Warren Paving and Materials Group Limited	N/A
64	Dibblee Cornwall Quarry (Non-monitoring plant)	Cornwall, Ontario	The Warren Paving and Materials Group Limited	N/A
65	Dibblee Stittsville Quarry (Non-monitoring plant)	Montague, Ontario	The Warren Paving and Materials Group Limited	N/A
66	James Dick Aggregates (Non-monitoring plant)	Brechin, Ontario	James Dick Construction Limited	N/A
67	Dundas Quarry (Non-monitoring plant)	Flamborough, Ontario	Steetley Quarry Products Inc.	N/A

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE A

ITEM	PLANT	LOCATION	OWNER AS OF FEBRUARY 7, 1990	CATEGORY-SPECIFIC MONITORING SCHEDULE
NON-MONITORING PLANTS CATEGORY (continued)				
68	Dunnville Quarry (Non-monitoring plant)	Dunnville, Ontario	Dunnville Rock Products Limited	N/A
69	Dunrobin Quarry (Non-monitoring plant)	West Carlton, Ontario	George Kennedy	N/A
70	Frontenac Aggregates & Construction (Non-monitoring plant)	Amherstview, Ontario	Cruickshank Construction Ltd.	N/A
71	Glenburnie Quarry (Non-monitoring plant)	Kingston, Ontario	McKendry Quarries Limited	N/A
72	Glengarry Aggregates & Concrete (Non-monitoring plant)	Green Valley, Ontario	Cruickshank Construction Ltd.	N/A
73	MacGregor Quarry (Non-monitoring plant)	Amherstburg, Ontario	General Chemicals Canada Ltd.	N/A
74	South Gloucester Quarry (Non-monitoring plant)	Gloucester, Ontario	United Aggregates Ltd.	N/A
75	Hagersville Quarry (Non-monitoring plant)	Hagersville, Ontario	Standard Aggregates Inc.	N/A
76	Halton Quarry (Non-monitoring plant)	Milton, Ontario	Halton Crushed Stone Limited	N/A
77	Hawthorne Quarry (Non-monitoring plant)	Gloucester, Ontario	Permanent Concrete Limited	N/A

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE A

ITEM	PLANT	LOCATION	OWNER AS OF FEBRUARY 7, 1990	CATEGORY-SPECIFIC MONITORING SCHEDULE
NON-MONITORING PLANTS CATEGORY (continued)				
78	Houlahan Quarry (Non-monitoring plant)	Nepean, Ontario	The Warren Paving and Materials Group Limited	N/A
79	Huntley Twp. Quarry (Non-monitoring plant)	Ashton, Ontario	Thomas Cavanagh Construction Limited	N/A
80	Jasper Quarry (Non-monitoring plant)	Wolford Twp., Ontario	G. Tackaberry & Sons Construction Company Limited	N/A
81	Joyceville Quarry (Non-monitoring plant)	Pittsburgh Twp., Ontario	Griffin Bros. (Ganonoque) Limited	N/A
82	Kenyon Quarry (Non-monitoring plant)	Kenyon, Ontario	Cruickshank Contruction Ltd.	N/A
83	Lincoln Quarry (Non-monitoring plant)	Beamsville, Ontario	Steed and Evans Limited and Lafarge Canada Inc., operating as Nelson Aggregate Co.	N/A
84	Longs Quarry (Non-monitoring plant)	Tyendinaga, Ontario	H.J. McFarland Construction Company Limited	N/A
85	Lowson Quarry (Non-monitoring plant)	Rear of Yonge & Escott Twp., Ontario	G. Tackaberry & Sons Construction Company Limited	N/A
86	Lynns Quarry (Non-monitoring plant)	North Crosby Twp., Ontario	Griffin Bros. (Ganonoque) Limited	N/A
87	Manitoulin Quarry (Non-monitoring plant)	Meldrum Bay, Ontario	Standard Aggregates Inc.	N/A

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE A

ITEM	PLANT	LOCATION	OWNER AS OF FEBRUARY 7, 1990	CATEGORY-SPECIFIC MONITORING SCHEDULE
NON-MONITORING PLANTS CATEGORY (continued)				
88	Moosonee Quarry (Non-monitoring plant)	Moosonee, Ontario	M.J. Labelle Co. Ltd.	N/A
89	Navan Quarry (Non-monitoring plant)	Gloucester, Ontario	Permanent Concrete Limited	N/A
90	Nepean Quarry (Non-monitoring plant)	Nepean, Ontario	H.J. McFarland Construction Company Limited. (Previously owned by George W. Drummond Limited.)	N/A
91	Nepheline Syenite Quarry/ Processing Plant (Non-monitoring plant)	Blue Mountain, Ontario	Indusmin Limited	N/A
92	Ogden Point Quarry (Non-monitoring plant)	Colborne, Ontario	St. Lawrence Cement Inc.	N/A
93	N. Plantagenet Quarry (Non-monitoring plant)	N. Plantagenet, Ontario	B&M Carriers Limited	N/A
94	S. Plantagenet Quarry (Non-monitoring plant)	S. Plantagenet, Ontario	B&M Carriers Limited	N/A
95	Port Colborne Quarry (Non-monitoring plant)	Port Colborne, Ontario	Port Colborne Quarries Limited	N/A
96	Queenston Quarries (Non-monitoring plant)	Niagara Falls, Ontario	Steetley Quarry Products Inc.	N/A

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE A

ITEM	PLANT	LOCATION	OWNER AS OF FEBRUARY 7, 1990	CATEGORY-SPECIFIC MONITORING SCHEDULE
NON-MONITORING PLANTS CATEGORY (continued)				
97	Rideau Road Quarry (Non-monitoring plant)	Gloucester, Ontario	The Warren Paving and Materials Group Limited	N/A
98	Selby Quarry (Non-monitoring plant)	Napanee, Ontario	Permanent Concrete Limited	N/A
99	St. Isidore Quarry (Non-monitoring plant)	S. Plantagenet, Ontario	Bertrand & Frere Construction Company, Limited	N/A
100	Stoney Creek Quarries (Non-monitoring plant)	Stoney Creek, Ontario	Taro Aggregates Ltd.	N/A
101	Spratt Quarry (Non-monitoring plant)	Stittsville, Ontario	Spratt Sand & Gravel Limited	N/A
102	Tatlock Quarry (Non-monitoring plant)	Tatlock, Ontario	Steep Rock Resources Inc.	N/A
103	Thorold Quarry (Non-monitoring plant)	Thorold, Ontario	Walker Industries Holdings Limited	N/A
104	Trent Valley Sand & Stone Ltd. (Non-monitoring plant)	Pt. Dover, Ontario	Norfolk Quarries Limited	N/A
105	Vineland Quarries & Crushed Stone Ltd. (Non-monitoring plant)	Vineland, Ontario	Walker Industries Holdings Limited	N/A
106	Vinemount Quarry (Non-monitoring plant)	Stoney Creek, Ontario	Waterford Sand & Gravel Limited	N/A

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE A

ITEM	PLANT	LOCATION	OWNER AS OF FEBRUARY 7, 1990	CATEGORY-SPECIFIC MONITORING SCHEDULE
NON-MONITORING PLANTS CATEGORY (continued)				
107	Westbrook Quarry (Non-monitoring plant)	Kingston Twp., Ontario	McKendry Quarries Limited	N/A
108	Westbrook Road Quarry (Non-monitoring plant)	Kingston, Ontario	The Warren Paving and Materials Group Limited	N/A
109	West Carlton Sand (Non-monitoring plant)	West Carleton, Ontario	Karson Kartage & Konstruction Co. Limited	N/A
110	Williamsburg Quarry (Non-monitoring plant)	Williamsburg, Ontario	Cruickshank Contruction Ltd.	N/A
111	Willows Quarry (Non-monitoring plant)	Kitely Twp., Ontario	G. Tackaberry & Sons Construction Company Limited	N/A
112	George Wimpey (Non-monitoring plant)	Nepean, Ontario	H.J. McFarland Construction Company Limited	N/A
113	Winchester Quarry (Non-monitoring plant)	Winchester, Ontario	Cornwall Gravel Company Limited	N/A
114	Woods (Tincap) Quarry (Non-monitoring plant)	Elizabethtown Twp., Ontario	G. Tackaberry & Sons Construction Company Limited	N/A

SCHEDULE B - MONITORING PARAMETERS
- INDUSTRIAL MINERALS SECTOR

	COLUMN 1	COLUMN 2	COLUMN 3
ANALYTICAL TEST GROUP #	NAME	PARAMETERS	CAS #s
2	Total cyanide	Total cyanide	57-12-5
3	Hydrogen ion (pH)	Hydrogen ion (pH)	N/A
4a	Nitrogen	Ammonia plus Ammonium	N/A
		Total Kjeldahl nitrogen	N/A
4b		Nitrate + Nitrite	N/A
5a	Organic carbon	Dissolved organic carbon (DOC)	N/A
5b		Total organic carbon (TOC)	N/A
6	Total phosphorus	Total phosphorus	7723-14-0
7	Specific conductance	Specific conductance	N/A
8	Suspended solids	Total suspended solids (TSS)	N/A
		Volatile suspended solids (VSS)	N/A
9	Total metals	Aluminum	7429-90-5
		Beryllium	7440-41-7
		Cadmium	7440-43-9
		Chromium	7440-47-3
		Cobalt	7440-48-4
		Copper	7440-50-8
		Lead	7439-92-1
		Molybdenum	7439-98-7
		Nickel	7440-02-0
		Silver	7440-22-4
		Thallium	7440-28-0
		Vanadium	7440-62-2
		Zinc	7440-66-6
10	Hydrides	Antimony	7440-36-0
		Arsenic	7440-38-2
		Selenium	7782-49-2
11	Chromium (Hexavalent)	Chromium (Hexavalent)	7440-47-3

SCHEDULE B - MONITORING PARAMETERS
- INDUSTRIAL MINERALS SECTOR

COLUMN 1		COLUMN 2	COLUMN 3
ANALYTICAL TEST GROUP		PARAMETERS	CAS #s
#	NAME		
12	Mercury	Mercury	7439-97-6
14	Phenolics (4AAP)	Phenolics (4AAP)	N/A
15	Sulphide	Sulphide	N/A
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane	79-34-5
		1,1,2-Trichloroethane	79-00-5
		1,1-Dichloroethane	75-34-3
		1,1-Dichloroethylene	75-35-4
		1,2-Dichlorobenzene	95-50-1
		1,2-Dichloroethane (Ethylene dichloride)	107-06-2
		1,2-Dichloropropane	78-87-5
		1,3-Dichlorobenzene	541-73-1
		1,4-Dichlorobenzene	106-46-7
		Bromoform	75-25-2
		Bromomethane	74-83-9
		Carbon tetrachloride	56-23-5
		Chlorobenzene	108-90-7
		Chloroform	67-66-3
		Chloromethane	74-87-3
		Cis-1,3-Dichloropropylene	10061-01-5
		Dibromochloromethane	124-48-1
		Ethylene dibromide	106-93-4
		Methylene chloride	75-09-2
		Tetrachloroethylene (Perchloroethylene)	127-18-4
		Trans-1,2-Dichloroethylene	156-60-5
		Trans-1,3-Dichloropropylene	10061-02-6
		Trichloroethylene	79-01-6
		Trichlorofluoromethane	75-69-4
		Vinyl chloride (Chloroethylene)	75-01-4
17	Volatiles, Non-Halogenated	Benzene	71-43-2
		Styrene	100-42-5
		Toluene	108-88-3
		o-Xylene	95-47-6
		m-Xylene and p-Xylene	108-38-3 & 106-42-3

SCHEDULE B - MONITORING PARAMETERS
- INDUSTRIAL MINERALS SECTOR

	COLUMN 1	COLUMN 2	COLUMN 3
ANALYTICAL TEST GROUP		PARAMETERS	CAS #s
#	NAME		
19	Extractables, Base Neutral	Acenaphthene	83-32-9
		5-nitro Acenaphthene	602-87-9
		Acenaphthylene	208-96-8
		Anthracene	120-12-7
		Benz(a)anthracene	56-55-3
		Benzo(a)pyrene	50-32-8
		Benzo(b)fluoranthene	205-99-2
		Benzo(g,h,i)perylene	191-24-2
		Benzo(k)fluoranthene	207-08-9
		Camphene	79-92-5
		1-Chloronaphthalene	90-13-1
		2-Chloronaphthalene	91-58-7
		Chrysene	218-01-9
		Dibenz(a,h)anthracene	53-70-3
		Fluoranthene	206-44-0
		Fluorene	86-73-7
		Indeno(1,2,3-cd)pyrene	193-39-5
		Indole	120-72-9
		1-Methylnaphthalene	90-12-0
		2-Methylnaphthalene	91-57-6
		Naphthalene	91-20-3
		Perylene	198-55-0
		Phenanthrene	85-01-8
		Pyrene	129-00-0
		Benzyl butyl phthalate	85-68-7
		Bis(2-ethylhexyl) phthalate	117-81-7
		Di-n-butyl phthalate	84-74-2
		4-Bromophenyl phenyl ether	101-55-3
		4-Chlorophenyl phenyl ether	7005-72-3
		Bis(2-chloroisopropyl)ether	108-60-1
		Bis(2-chloroethyl)ether	111-44-4
		2,4-Dinitrotoluene	121-14-2
		2,6-Dinitrotoluene	606-20-2
		Bis(2-chloroethoxy)methane	111-91-1
		Diphenylamine	122-39-4
		N-Nitrosodiphenylamine	86-30-6
		N-Nitrosodi-n-propylamine	621-64-7

SCHEDULE B - MONITORING PARAMETERS
- INDUSTRIAL MINERALS SECTOR

	COLUMN 1	COLUMN 2	COLUMN 3
ANALYTICAL TEST GROUP		PARAMETERS	CAS #s
#	NAME		
20	Extractables, Acid (Phenolics)	2,3,4,5-Tetrachlorophenol	4901-51-3
		2,3,4,6-Tetrachlorophenol	58-90-2
		2,3,5,6-Tetrachlorophenol	935-95-5
		2,3,4-Trichlorophenol	15950-66-0
		2,3,5-Trichlorophenol	933-78-8
		2,4,5-Trichlorophenol	95-95-4
		2,4,6-Trichlorophenol	88-06-2
		2,4-Dimethyl phenol	105-67-9
		2,4-Dinitrophenol	51-28-5
		2,4-Dichlorophenol	120-83-2
		2,6-Dichlorophenol	87-65-0
		4,6-Dinitro-o-cresol	534-52-1
		2-Chlorophenol	95-57-8
		4-Chloro-3-methylphenol	59-50-7
		4-Nitrophenol	100-02-7
		m-Cresol	108-39-4
		o-Cresol	95-48-7
		p-Cresol	106-44-5
		Pentachlorophenol	87-86-5
		Phenol	108-95-2
24	Chlorinated Dibenzo-p-dioxins and Dibenzofurans	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6
		Octachlorodibenzo-p-dioxin	326-88-7
		Octachlorodibenzofuran	Unavailable
		Total heptachlorinated dibenzo-p-dioxins	Unavailable
		Total heptachlorinated dibenzofurans	Unavailable
		Total hexachlorinated dibenzo-p-dioxins	34465-46-8
		Total hexachlorinated dibenzofurans	Unavailable
		Total pentachlorinated dibenzo-p-dioxins	Unavailable
		Total pentachlorinated dibenzofurans	Unavailable
		Total tetrachlorinated dibenzo-p-dioxins	Unavailable
		Total tetrachlorinated dibenzofurans	Unavailable
25	Solvent Extractables	Oil and grease	
27	Polychlorinated Biphenyls (PCBs) (Total)	PCBs (Total)	Unavailable
IM1	Chloride	Chloride	

SCHEDULE B - MONITORING PARAMETERS
- INDUSTRIAL MINERALS SECTOR

	COLUMN 1	COLUMN 2	COLUMN 3
ANALYTICAL TEST GROUP #	NAME	PARAMETERS	CAS #s
IM2	Fibrous Chrysotile	Fibrous Chrysotile	
IM3	Fluoride	Fluoride	
IM4	Sulphate	Sulphate	

LEGEND FOR SCHEDULES C TO K

3W	- Thrice weekly
M	- Month
SA/A	- Semi-annually or Annually*

* See Section 9 to determine whether monitoring at a plant is required to be done annually or semi-annually.

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE C - CEMENT CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Cement Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
2	Total cyanide	Total cyanide			XXX			XXX	
3	Hydrogen ion (pH)	Hydrogen ion (pH)	XXX			XXX			XXX
4a	Nitrogen	Ammonia plus Ammonium		XXX				XXX	XXX
		Total Kjeldahl nitrogen							
4b		Nitrate + Nitrite			XXX			XXX	XXX
5a	Organic carbon	Dissolved organic carbon (DOC)			XXX			XXX	
5b		Total organic carbon (TOC)							
6	Total phosphorus	Total phosphorus			XXX			XXX	
7	Specific conductance	Specific conductance			XXX			XXX	XXX
8	Suspended solids	Total suspended solids (TSS)	XXX			XXX			XXX
		Volatile suspended solids (VSS)							
9	Total metals	Aluminum			XXX			XXX	
		Beryllium			XXX			XXX	
		Cadmium		XXX				XXX	XXX
		Chromium			XXX			XXX	
		Cobalt			XXX			XXX	
		Copper			XXX			XXX	
		Lead			XXX			XXX	
		Molybdenum			XXX			XXX	
		Nickel			XXX			XXX	
		Silver			XXX			XXX	
		Thallium			XXX			XXX	
		Vanadium			XXX			XXX	
		Zinc			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE C - CEMENT CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Cement Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
11	Chromium (Hexavalent)	Chromium (Hexavalent)			XXX			XXX	
12	Mercury	Mercury			XXX			XXX	
14	Phenolics (4AAP)	Phenolics (4AAP)		XXX			XXX		XXX
15	Sulphide	Sulphide			XXX			XXX	
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane			XXX			XXX	
		1,1,2-Trichloroethane			XXX			XXX	
		1,1-Dichloroethane			XXX			XXX	
		1,1-Dichloroethylene			XXX			XXX	
		1,2-Dichlorobenzene			XXX			XXX	
		1,2-Dichloroethane (Ethylene dichloride)			XXX			XXX	
		1,2-Dichloropropane			XXX			XXX	
		1,3-Dichlorobenzene			XXX			XXX	
		1,4-Dichlorobenzene			XXX			XXX	
		Bromoform			XXX			XXX	
		Bromomethane			XXX			XXX	
		Carbon tetrachloride			XXX			XXX	
		Chlorobenzene			XXX			XXX	
		Chloroform			XXX			XXX	
		Chloromethane			XXX			XXX	
		Cis-1,3-Dichloropropylene			XXX			XXX	
		Dibromochloromethane			XXX			XXX	
		Ethylene dibromide			XXX			XXX	
		Methylene chloride			XXX			XXX	
		Tetrachloroethylene (Perchloroethylene)			XXX			XXX	
		Trans-1,2-Dichloroethylene			XXX			XXX	
		Trans-1,3-Dichloropropylene			XXX			XXX	
		Trichloroethylene			XXX			XXX	
		Trichlorofluoromethane			XXX			XXX	
		Vinyl chloride (Chloroethylene)			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE C - CEMENT CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Cement Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
17	Volatiles, Non-Halogenated	Benzene			XXX			XXX	
		Styrene			XXX			XXX	
		Toluene			XXX			XXX	
		o-Xylene			XXX			XXX	
		m-Xylene and p-Xylene			XXX			XXX	
19	Extractables, Base Neutral	Acenaphthene			XXX			XXX	
		5-nitro Acenaphthene			XXX			XXX	
		Acenaphthylene			XXX			XXX	
		Anthracene			XXX			XXX	
		Benz(a)anthracene			XXX			XXX	
		Benzo(a)pyrene			XXX			XXX	
		Benzo(b)fluoranthene			XXX			XXX	
		Benzo(g,h,i)perylene			XXX			XXX	
		Benzo(k)fluoranthene			XXX			XXX	
		Camphene			XXX			XXX	
		1-Chloronaphthalene			XXX			XXX	
		2-Chloronaphthalene			XXX			XXX	
		Chrysene			XXX			XXX	
		Dibenz(a,h)anthracene			XXX			XXX	
		Fluoranthene			XXX			XXX	
		Fluorene			XXX			XXX	
		Indeno(1,2,3-cd)pyrene			XXX			XXX	
		Indole			XXX			XXX	
		1-Methylnaphthalene			XXX			XXX	
		2-Methylnaphthalene			XXX			XXX	
		Naphthalene			XXX			XXX	
		Perylene			XXX			XXX	
		Phenanthrene			XXX			XXX	
		Pyrene			XXX			XXX	
		Benzyl butyl phthalate			XXX			XXX	
		Bis(2-Ethylhexyl) phthalate			XXX			XXX	
		Di-n-butyl phthalate			XXX			XXX	
		4-Bromophenyl phenyl ether			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE C - CEMENT CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Cement Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
19	Extractables, Base Neutral (continued)	4-Chlorophenyl phenyl ether			XXX			XXX	
		Bis(2-Chloroisopropyl)ether			XXX			XXX	
		Bis(2-Chloroethyl)ether			XXX			XXX	
		2,4-Dinitrotoluene			XXX			XXX	
		2,6-Dinitrotoluene			XXX			XXX	
		Bis(2-Chloroethoxy)methane			XXX			XXX	
		Diphenylamine			XXX			XXX	
		N-Nitrosodiphenylamine			XXX			XXX	
		N-Nitrosodi-n-propylamine			XXX			XXX	
20	Extractables, Acid (Phenolics)	2,3,4,5-Tetrachlorophenol			XXX			XXX	
		2,3,4,6-Tetrachlorophenol			XXX			XXX	
		2,3,5,6-Tetrachlorophenol			XXX			XXX	
		2,3,4-Trichlorophenol			XXX			XXX	
		2,3,5-Trichlorophenol			XXX			XXX	
		2,4,5-Trichlorophenol			XXX			XXX	
		2,4,6-Trichlorophenol			XXX			XXX	
		2,4-Dimethyl phenol			XXX			XXX	
		2,4-Dinitrophenol			XXX			XXX	
		2,4-Dichlorophenol			XXX			XXX	
		2,6-Dichlorophenol			XXX			XXX	
		4,6-Dinitro-o-cresol			XXX			XXX	
		2-Chlorophenol			XXX			XXX	
		4-Chloro-3-methylphenol			XXX			XXX	
		4-Nitrophenol			XXX			XXX	
		m-Cresol			XXX			XXX	
		o-Cresol			XXX			XXX	
		p-Cresol			XXX			XXX	
		Pentachlorophenol			XXX			XXX	
		Phenol			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE C - CEMENT CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Cement Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
24	Chlorinated Dibenzo-p-dioxins and Dibenzofurans (but see section 10)	2,3,7,8-Tetrachlorodibenzo-p-dioxin							
		Octachlorodibenzo-p-dioxin							
		Octachlorodibenzofuran							
		Total heptachlorinated dibenzo-p-dioxins							
		Total heptachlorinated dibenzofurans							
		Total hexachlorinated dibenzo-p-dioxins							
		Total hexachlorinated dibenzofurans							
		Total pentachlorinated dibenzo-p-dioxins							
		Total pentachlorinated dibenzofurans							
		Total tetrachlorinated dibenzo-p-dioxins							
		Total tetrachlorinated dibenzofurans							
25	Solvent Extractables	Oil and grease	XXX			XXX			XXX
27	Polychlorinated Biphenyls (but see subsection 9(6))	PCBs (Total)			XXX			XXX	
28a	Open Characterization - Volatiles				XXX			XXX	
28b	Open Characterization - Extractables				XXX			XXX	
29	Open Characterization - Elemental	Aluminum			XXX			XXX	
		Antimony			XXX			XXX	
		Arsenic			XXX			XXX	
		Barium			XXX			XXX	
		Beryllium			XXX			XXX	
		Bismuth			XXX			XXX	
		Boron			XXX			XXX	
		Cadmium			XXX			XXX	
		Calcium			XXX			XXX	
		Cerium			XXX			XXX	
		Cesium			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE C - CEMENT CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Cement Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
29	Open Characterization - Elemental (continued)	Chromium			XXX			XXX	
		Cobalt			XXX			XXX	
		Copper			XXX			XXX	
		Dysprosium			XXX			XXX	
		Erbium			XXX			XXX	
		Europium			XXX			XXX	
		Gadolinium			XXX			XXX	
		Gallium			XXX			XXX	
		Germanium			XXX			XXX	
		Gold			XXX			XXX	
		Hafnium			XXX			XXX	
		Holmium			XXX			XXX	
		Indium			XXX			XXX	
		Iridium			XXX			XXX	
		Iron			XXX			XXX	
		Lanthanum			XXX			XXX	
		Lead			XXX			XXX	
		Lithium			XXX			XXX	
		Lutetium			XXX			XXX	
		Magnesium			XXX			XXX	
		Manganese			XXX			XXX	
		Mercury			XXX			XXX	
		Molybdenum			XXX			XXX	
		Neodymium			XXX			XXX	
		Nickel			XXX			XXX	
		Niobium			XXX			XXX	
		Osmium			XXX			XXX	
		Palladium			XXX			XXX	
		Phosphorus			XXX			XXX	
		Platinum			XXX			XXX	
		Potassium			XXX			XXX	
		Praesodymium			XXX			XXX	
		Rhenium			XXX			XXX	
		Rhodium			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE C - CEMENT CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Cement Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
29	Open Characterization - Elemental (continued)	Rubidium			XXX			XXX	
		Ruthenium			XXX			XXX	
		Samarium			XXX			XXX	
		Scandium			XXX			XXX	
		Selenium			XXX			XXX	
		Silicon			XXX			XXX	
		Silver			XXX			XXX	
		Sodium			XXX			XXX	
		Strontium			XXX			XXX	
		Sulfur			XXX			XXX	
		Tantalum			XXX			XXX	
		Tellurium			XXX			XXX	
		Terbium			XXX			XXX	
		Thallium			XXX			XXX	
		Thorium			XXX			XXX	
		Thulium			XXX			XXX	
		Tin			XXX			XXX	
		Titanium			XXX			XXX	
		Tungsten			XXX			XXX	
		Uranium			XXX			XXX	
		Vanadium			XXX			XXX	
		Ytterbium			XXX			XXX	
		Yttrium			XXX			XXX	
		Zinc			XXX			XXX	
		Zirconium			XXX			XXX	
IM1	Chloride	Chloride			XXX		XXX		XXX
IM4	Sulphate	Sulphate			XXX		XXX		XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE D - CHEMICAL LIME CATEGORY

		EFFLUENT STREAM TYPE:	Lime Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
2	Total cyanide	Total cyanide			XXX	
3	Hydrogen ion (pH)	Hydrogen ion (pH)	XXX			XXX
4a	Nitrogen (but see subsection 7(5))	Ammonia plus Ammonium		XXX	XXX	XXX
		Total Kjeldahl nitrogen				
4b		Nitrate + Nitrite			XXX	XXX
5a	Organic carbon	Dissolved organic carbon (DOC)			XXX	
5b		Total organic carbon (TOC)				
6	Total phosphorus	Total phosphorus			XXX	
7	Specific conductance	Specific conductance			XXX	XXX
8	Suspended solids	Total suspended solids (TSS)	XXX			XXX
		Volatile suspended solids (VSS)				
9	Total metals (but see subsection 7(6))	Aluminum			XXX	
		Beryllium			XXX	
		Cadmium			XXX	
		Chromium			XXX	
		Cobalt			XXX	
		Copper		XXX	XXX	XXX
		Lead			XXX	
		Molybdenum			XXX	
		Nickel			XXX	
		Silver			XXX	
		Thallium			XXX	
		Vanadium			XXX	
		Zinc			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE D - CHEMICAL LIME CATEGORY

		EFFLUENT STREAM TYPE:	Lime Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
11	Chromium (Hexavalent)	Chromium (Hexavalent)			XXX	
12	Mercury	Mercury			XXX	
14	Phenolics (4AAP) (but see subsection 7(6))	Phenolics (4AAP)		XXX	XXX	XXX
15	Sulphide	Sulphide			XXX	
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane			XXX	
		1,1,2-Trichloroethane			XXX	
		1,1-Dichloroethane			XXX	
		1,1-Dichloroethylene			XXX	
		1,2-Dichlorobenzene			XXX	
		1,2-Dichloroethane (Ethylene dichloride)			XXX	
		1,2-Dichloropropane			XXX	
		1,3-Dichlorobenzene			XXX	
		1,4-Dichlorobenzene			XXX	
		Bromoform			XXX	
		Bromomethane			XXX	
		Carbon tetrachloride			XXX	
		Chlorobenzene			XXX	
		Chloroform			XXX	
		Chloromethane			XXX	
		Cis-1,3-Dichloropropylene			XXX	
		Dibromochloromethane			XXX	
		Ethylene dibromide			XXX	
		Methylene chloride			XXX	
		Tetrachloroethylene (Perchloroethylene)			XXX	
		Trans-1,2-Dichloroethylene			XXX	
		Trans-1,3-Dichloropropylene			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE D - CHEMICAL LIME CATEGORY

		EFFLUENT STREAM TYPE:	Lime Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
16	Volatiles, Halogenated (continued)	Trichloroethylene			XXX	
		Trichlorofluoromethane			XXX	
		Vinyl chloride (Chloroethylene)			XXX	
17	Volatiles, Non-Halogenated	Benzene			XXX	
		Styrene			XXX	
		Toluene			XXX	
		o-Xylene			XXX	
		m-Xylene and p-Xylene			XXX	
19	Extractables, Base Neutral	Acenaphthene			XXX	
		5-nitro Acenaphthene			XXX	
		Acenaphthylene			XXX	
		Anthracene			XXX	
		Benz(a)anthracene			XXX	
		Benzo(a)pyrene			XXX	
		Benzo(b)fluoranthene			XXX	
		Benzo(g,h,i)perylene			XXX	
		Benzo(k)fluoranthene			XXX	
		Camphene			XXX	
		1-Chloronaphthalene			XXX	
		2-Chloronaphthalene			XXX	
		Chrysene			XXX	
		Dibenz(a,h)anthracene			XXX	
		Fluoranthene			XXX	
		Fluorene			XXX	
		Indeno(1,2,3-cd)pyrene			XXX	
		Indole			XXX	
		1-Methylnaphthalene			XXX	
		2-Methylnaphthalene			XXX	
		Naphthalene			XXX	
		Perylene			XXX	
		Phenanthrene			XXX	
		Pyrene			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE D - CHEMICAL LIME CATEGORY

		EFFLUENT STREAM TYPE:	Lime Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
19	Extractables, Base Neutral (continued)	Benzyl butyl phthalate			XXX	
		Bis(2-Ethylhexyl) phthalate			XXX	
		Di-n-butyl phthalate			XXX	
		4-Bromophenyl phenyl ether			XXX	
		4-Chlorophenyl phenyl ether			XXX	
		Bis(2-Chloroisopropyl)ether			XXX	
		Bis(2-Chloroethyl)ether			XXX	
		2,4-Dinitrotoluene			XXX	
		2,6-Dinitrotoluene			XXX	
		Bis(2-Chloroethoxy)methane			XXX	
		Diphenylamine			XXX	
		N-Nitrosodiphenylamine			XXX	
		N-Nitrosodi-n-propylamine			XXX	
20	Extractables, Acid (Phenolics) (but see subsection 7(6))	2,3,4,5-Tetrachlorophenol		XXX	XXX	
		2,3,4,6-Tetrachlorophenol		XXX	XXX	
		2,3,5,6-Tetrachlorophenol		XXX	XXX	
		2,3,4-Trichlorophenol		XXX	XXX	
		2,3,5-Trichlorophenol		XXX	XXX	
		2,4,5-Trichlorophenol		XXX	XXX	
		2,4,6-Trichlorophenol		XXX	XXX	
		2,4-Dimethyl phenol		XXX	XXX	
		2,4-Dinitrophenol		XXX	XXX	
		2,4-Dichlorophenol		XXX	XXX	
		2,6-Dichlorophenol		XXX	XXX	
		4,6-Dinitro-o-cresol		XXX	XXX	
		2-Chlorophenol		XXX	XXX	
		4-Chloro-3-methylphenol		XXX	XXX	
		4-Nitrophenol		XXX	XXX	
		m-Cresol		XXX	XXX	
		o-Cresol		XXX	XXX	
		p-Cresol		XXX	XXX	
		Pentachlorophenol		XXX	XXX	
		Phenol		XXX	XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE D - CHEMICAL LIME CATEGORY

		EFFLUENT STREAM TYPE:	Lime Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
24	Chlorinated Dibenzo-p-dioxins and Dibenzofurans (but see section 10)	2,3,7,8-Tetrachlorodibenzo-p-dioxin				
		Octachlorodibenzo-p-dioxin				
		Octachlorodibenzofuran				
		Total heptachlorinated dibenzo-p-dioxins				
		Total heptachlorinated dibenzofurans				
		Total hexachlorinated dibenzo-p-dioxins				
		Total hexachlorinated dibenzofurans				
		Total pentachlorinated dibenzo-p-dioxins				
		Total pentachlorinated dibenzofurans				
		Total tetrachlorinated dibenzo-p-dioxins				
		Total tetrachlorinated dibenzofurans				
25	Solvent Extractables	Oil and grease	XXX			XXX
27	Polychlorinated Biphenyls (but see subsection 9(6))	PCBs (Total)			XXX	
28a	Open Characterization - Volatiles				XXX	
28b	Open Characterization - Extractables				XXX	
29	Open Characterization - Elemental	Aluminum			XXX	
		Antimony			XXX	
		Arsenic			XXX	
		Barium			XXX	
		Beryllium			XXX	
		Bismuth			XXX	
		Boron			XXX	
		Cadmium			XXX	
		Calcium			XXX	
		Cerium			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE D - CHEMICAL LIME CATEGORY

		EFFLUENT STREAM TYPE:	Lime Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
29	Open Characterization - Elemental (continued)	Cesium			XXX	
		Chromium			XXX	
		Cobalt			XXX	
		Copper			XXX	
		Dysprosium			XXX	
		Erbium			XXX	
		Europium			XXX	
		Gadolinium			XXX	
		Gallium			XXX	
		Germanium			XXX	
		Gold			XXX	
		Hafnium			XXX	
		Holmium			XXX	
		Indium			XXX	
		Iridium			XXX	
		Iron			XXX	
		Lanthanum			XXX	
		Lead			XXX	
		Lithium			XXX	
		Lutetium			XXX	
		Magnesium			XXX	
		Manganese			XXX	
		Mercury			XXX	
		Molybdenum			XXX	
		Neodymium			XXX	
		Nickel			XXX	
		Niobium			XXX	
		Osmium			XXX	
		Palladium			XXX	
		Phosphorus			XXX	
		Platinum			XXX	
		Potassium			XXX	
		Praesodymium			XXX	
		Rhenium			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE D - CHEMICAL LIME CATEGORY

		EFFLUENT STREAM TYPE:	Lime Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
29	Open Characterization - Elemental (continued)	Rhodium			XXX	
		Rubidium			XXX	
		Ruthenium			XXX	
		Samarium			XXX	
		Scandium			XXX	
		Selenium			XXX	
		Silicon			XXX	
		Silver			XXX	
		Sodium			XXX	
		Strontium			XXX	
		Sulfur			XXX	
		Tantalum			XXX	
		Tellurium			XXX	
		Terbium			XXX	
		Thallium			XXX	
		Thorium			XXX	
		Thulium			XXX	
		Tin			XXX	
		Titanium			XXX	
		Tungsten			XXX	
		Uranium			XXX	
		Vanadium			XXX	
		Ytterbium			XXX	
		Yttrium			XXX	
		Zinc			XXX	
		Zirconium			XXX	
IM1	Chloride	Chloride			XXX	
IM4	Sulphate	Sulphate			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE E - CLAY AND SHALE CATEGORY

		EFFLUENT STREAM TYPE:	Storm Water	
		FREQUENCY OF SAMPLING:	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED		
2	Total cyanide	Total cyanide		XXX
3	Hydrogen ion (pH)	Hydrogen ion (pH)	XXX	
4a	Nitrogen	Ammonia plus Ammonium		XXX
		Total Kjeldahl nitrogen		
4b		Nitrate + Nitrite		XXX
5a	Organic carbon	Dissolved organic carbon (DOC)		XXX
5b		Total organic carbon (TOC)		
6	Total phosphorus	Total phosphorus		XXX
7	Specific conductance	Specific conductance	XXX	
8	Suspended solids	Total suspended solids (TSS)	XXX	
		Volatile suspended solids (VSS)		
9	Total metals	Aluminum		XXX
		Beryllium		XXX
		Cadmium		XXX
		Chromium		XXX
		Cobalt		XXX
		Copper		XXX
		Lead		XXX
		Molybdenum		XXX
		Nickel		XXX
		Silver		XXX
		Thallium		XXX
		Vanadium		XXX
		Zinc		XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE E - CLAY AND SHALE CATEGORY

		EFFLUENT STREAM TYPE:	Storm Water	
		FREQUENCY OF SAMPLING:	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED		
11	Chromium (Hexavalent)	Chromium (Hexavalent)		XXX
12	Mercury	Mercury		XXX
14	Phenolics (4AAP)	Phenolics (4AAP)	XXX	
15	Sulphide	Sulphide		XXX
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane		XXX
		1,1,2-Trichloroethane		XXX
		1,1-Dichloroethane		XXX
		1,1-Dichloroethylene		XXX
		1,2-Dichlorobenzene		XXX
		1,2-Dichloroethane (Ethylene dichloride)		XXX
		1,2-Dichloropropane		XXX
		1,3-Dichlorobenzene		XXX
		1,4-Dichlorobenzene		XXX
		Bromoform		XXX
		Bromomethane		XXX
		Carbon tetrachloride		XXX
		Chlorobenzene		XXX
		Chloroform		XXX
		Chloromethane		XXX
		Cis-1,3-Dichloropropylene		XXX
		Dibromochloromethane		XXX
		Ethylene dibromide		XXX
		Methylene chloride		XXX
		Tetrachloroethylene (Perchloroethylene)		XXX
		Trans-1,2-Dichloroethylene		XXX
		Trans-1,3-Dichloropropylene		XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE E - CLAY AND SHALE CATEGORY

		EFFLUENT STREAM TYPE:	Storm Water	
		FREQUENCY OF SAMPLING:	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED		
16	Volatiles, Halogenated (continued)	Trichloroethylene		XXX
		Trichlorofluoromethane		XXX
		Vinyl chloride (Chloroethylene)		XXX
17	Volatiles, Non-Halogenated	Benzene		XXX
		Styrene		XXX
		Toluene		XXX
		o-Xylene		XXX
		m-Xylene and p-Xylene		XXX
19	Extractables, Base Neutral	Acenaphthene		XXX
		5-nitro Acenaphthene		XXX
		Acenaphthylene		XXX
		Anthracene		XXX
		Benz(a)anthracene		XXX
		Benzo(a)pyrene		XXX
		Benzo(b)fluoranthene		XXX
		Benzo(g,h,i)perylene		XXX
		Benzo(k)fluoranthene		XXX
		Camphene		XXX
		1-Chloronaphthalene		XXX
		2-Chloronaphthalene		XXX
		Chrysene		XXX
		Dibenz(a,h)anthracene		XXX
		Fluoranthene		XXX
		Fluorene		XXX
		Indeno(1,2,3-cd)pyrene		XXX
		Indole		XXX
		1-Methylnaphthalene		XXX
		2-Methylnaphthalene		XXX
		Naphthalene		XXX
		Perylene		XXX
		Phenanthrene		XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE E - CLAY AND SHALE CATEGORY

		EFFLUENT STREAM TYPE:	Storm Water	
		FREQUENCY OF SAMPLING:	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED		
19	Extractables, Base Neutral (continued)	Pyrene		XXX
		Benzyl butyl phthalate		XXX
		Bis(2-Ethylhexyl) phthalate		XXX
		Di-n-butyl phthalate		XXX
		4-Bromophenyl phenyl ether		XXX
		4-Chlorophenyl phenyl ether		XXX
		Bis(2-Chloroisopropyl)ether		XXX
		Bis(2-Chloroethyl)ether		XXX
		2,4-Dinitrotoluene		XXX
		2,6-Dinitrotoluene		XXX
		Bis(2-Chloroethoxy)methane		XXX
		Diphenylamine		XXX
		N-Nitrosodiphenylamine		XXX
		N-Nitrosodi-n-propylamine		XXX
20	Extractables, Acid (Phenolics)	2,3,4,5-Tetrachlorophenol		XXX
		2,3,4,6-Tetrachlorophenol		XXX
		2,3,5,6-Tetrachlorophenol		XXX
		2,3,4-Trichlorophenol		XXX
		2,3,5-Trichlorophenol		XXX
		2,4,5-Trichlorophenol		XXX
		2,4,6-Trichlorophenol		XXX
		2,4-Dimethyl phenol		XXX
		2,4-Dinitrophenol		XXX
		2,4-Dichlorophenol		XXX
		2,6-Dichlorophenol		XXX
		4,6-Dinitro-o-cresol		XXX
		2-Chlorophenol		XXX
		4-Chloro-3-methylphenol		XXX
		4-Nitrophenol		XXX
		m-Cresol		XXX
		o-Cresol		XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE E - CLAY AND SHALE CATEGORY

		EFFLUENT STREAM TYPE:	Storm Water	
		FREQUENCY OF SAMPLING:	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED		
20	Extractables, Acid (Phenolics) (continued)	p-Cresol		XXX
		Pentachlorophenol		XXX
		Phenol		XXX
24	Chlorinated Dibenzo-p-dioxins and Dibenzofurans (but see section 10)	2,3,7,8-Tetrachlorodibenzo-p-dioxin		
		Octachlorodibenzo-p-dioxin		
		Octachlorodibenzofuran		
		Total heptachlorinated dibenzo-p-dioxins		
		Total heptachlorinated dibenzofurans		
		Total hexachlorinated dibenzo-p-dioxins		
		Total hexachlorinated dibenzofurans		
		Total pentachlorinated dibenzo-p-dioxins		
		Total pentachlorinated dibenzofurans		
		Total tetrachlorinated dibenzo-p-dioxins		
		Total tetrachlorinated dibenzofurans		
25	Solvent Extractables	Oil and grease	XXX	
27	Polychlorinated Biphenyls (but see subsection 9(6))	PCBs (Total)		XXX
28a	Open Characterization - Volatiles			XXX
28b	Open Characterization - Extractables			XXX
29	Open Characterization - Elemental	Aluminum		XXX
		Antimony		XXX
		Arsenic		XXX
		Barium		XXX
		Beryllium		XXX
		Bismuth		XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE E - CLAY AND SHALE CATEGORY

		EFFLUENT STREAM TYPE:	Storm Water	
		FREQUENCY OF SAMPLING:	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED		
29	Open Characterization - Elemental (continued)	Boron		XXX
		Cadmium		XXX
		Calcium		XXX
		Cerium		XXX
		Cesium		XXX
		Chromium		XXX
		Cobalt		XXX
		Copper		XXX
		Dysprosium		XXX
		Erbium		XXX
		Europium		XXX
		Gadolinium		XXX
		Gallium		XXX
		Germanium		XXX
		Gold		XXX
		Hafnium		XXX
		Holmium		XXX
		Indium		XXX
		Iridium		XXX
		Iron		XXX
		Lanthanum		XXX
		Lead		XXX
		Lithium		XXX
		Lutetium		XXX
		Magnesium		XXX
		Manganese		XXX
		Mercury		XXX
		Molybdenum		XXX
		Neodymium		XXX
		Nickel		XXX
		Niobium		XXX
		Osmium		XXX
		Palladium		XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE E - CLAY AND SHALE CATEGORY

		EFFLUENT STREAM TYPE:	Storm Water	
		FREQUENCY OF SAMPLING:	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED		
29	Open Characterization - Elemental (continued)	Phosphorus		XXX
		Platinum		XXX
		Potassium		XXX
		Praesodymium		XXX
		Rhenium		XXX
		Rhodium		XXX
		Rubidium		XXX
		Ruthenium		XXX
		Samarium		XXX
		Scandium		XXX
		Selenium		XXX
		Silicon		XXX
		Silver		XXX
		Sodium		XXX
		Strontium		XXX
		Sulfur		XXX
		Tantalum		XXX
		Tellurium		XXX
		Terbium		XXX
		Thallium		XXX
		Thorium		XXX
		Thulium		XXX
		Tin		XXX
		Titanium		XXX
		Tungsten		XXX
		Uranium		XXX
		Vanadium		XXX
		Ytterbium		XXX
		Yttrium		XXX
		Zinc		XXX
		Zirconium		XXX
IM3	Fluoride	Fluoride	XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE F - GRAPHITE CATEGORY

		EFFLUENT STREAM TYPE:	Graphite Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
	ANALYTICAL TEST GROUP	**PARAMETERS TO BE ANALYZED**				
2	Total cyanide	Total cyanide			XXX	
3	Hydrogen ion (pH)	Hydrogen ion (pH)	XXX			XXX
4a	Nitrogen	Ammonia plus Ammonium			XXX	XXX
		Total Kjeldahl nitrogen				
4b		Nitrate + Nitrite			XXX	XXX
5a	Organic carbon	Dissolved organic carbon (DOC)			XXX	
5b		Total organic carbon (TOC)				
6	Total phosphorus	Total phosphorus			XXX	
7	Specific conductance	Specific conductance			XXX	
8	Suspended solids	Total suspended solids (TSS)	XXX			XXX
		Volatile suspended solids (VSS)				
9	Total metals	Aluminum				
		Beryllium				
		Cadmium		XXX		XXX
		Chromium				
		Cobalt				
		Copper		XXX		XXX
		Lead		XXX		XXX
		Molybdenum				
		Nickel		XXX		XXX
		Silver				
		Thallium				
		Vanadium				
		Zinc		XXX		XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE F - GRAPHITE CATEGORY

		EFFLUENT STREAM TYPE:	Graphite Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
10	Hydrides	Antimony				
		Arsenic		XXX		XXX
		Selenium				
11	Chromium (Hexavalent)	Chromium (Hexavalent)				
12	Mercury	Mercury		XXX		XXX
14	Phenolics (4AAP)	Phenolics (4AAP)		XXX		XXX
15	Sulphide	Sulphide		XXX		XXX
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane			XXX	
		1,1,2-Trichloroethane			XXX	
		1,1-Dichloroethane			XXX	
		1,1-Dichloroethylene			XXX	
		1,2-Dichlorobenzene			XXX	
		1,2-Dichloroethane (Ethylene dichloride)			XXX	
		1,2-Dichloropropane			XXX	
		1,3-Dichlorobenzene			XXX	
		1,4-Dichlorobenzene			XXX	
		Bromoform			XXX	
		Bromomethane			XXX	
		Carbon tetrachloride			XXX	
		Chlorobenzene			XXX	
		Chloroform			XXX	
		Chloromethane			XXX	
		Cis-1,3-Dichloropropylene			XXX	
		Dibromochloromethane			XXX	
		Ethylene dibromide			XXX	
		Methylene chloride			XXX	
		Tetrachloroethylene (Perchloroethylene)			XXX	
		Trans-1,2-Dichloroethylene			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE F - GRAPHITE CATEGORY

		EFFLUENT STREAM TYPE:	Graphite Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
16	Volatiles, Halogenated (continued)	Trans-1,3-Dichloropropylene			XXX	
		Trichloroethylene			XXX	
		Trichlorofluoromethane			XXX	
		Vinyl chloride (Chloroethylene)			XXX	
17	Volatiles, Non-Halogenated	Benzene			XXX	
		Styrene			XXX	
		Toluene			XXX	
		o-Xylene			XXX	
		m-Xylene and p-Xylene			XXX	
19	Extractables, Base Neutral	Acenaphthene			XXX	
		5-nitro Acenaphthene			XXX	
		Acenaphthylene			XXX	
		Anthracene			XXX	
		Benz(a)anthracene			XXX	
		Benzo(a)pyrene			XXX	
		Benzo(b)fluoranthene			XXX	
		Benzo(g,h,i)perylene			XXX	
		Benzo(k)fluoranthene			XXX	
		Camphene			XXX	
		1-Chloronaphthalene			XXX	
		2-Chloronaphthalene			XXX	
		Chrysene			XXX	
		Dibenz(a,h)anthracene			XXX	
		Fluoranthene			XXX	
		Fluorene			XXX	
		Indeno(1,2,3-cd)pyrene			XXX	
		Indole			XXX	
		1-Methylnaphthalene			XXX	
		2-Methylnaphthalene			XXX	
		Naphthalene			XXX	
		Perylene			XXX	
		Phenanthrene			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE F - GRAPHITE CATEGORY

		EFFLUENT STREAM TYPE:	Graphite Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
19	Extractables, Base Neutral (continued)	Pyrene			XXX	
		Benzyl butyl phthalate			XXX	
		Bis(2-Ethylhexyl) phthalate			XXX	
		Di-n-butyl phthalate			XXX	
		4-Bromophenyl phenyl ether			XXX	
		4-Chlorophenyl phenyl ether			XXX	
		Bis(2-Chloroisopropyl)ether			XXX	
		Bis(2-Chloroethyl)ether			XXX	
		2,4-Dinitrotoluene			XXX	
		2,6-Dinitrotoluene			XXX	
		Bis(2-Chloroethoxy)methane			XXX	
		Diphenylamine			XXX	
		N-Nitrosodiphenylamine			XXX	
		N-Nitrosodi-n-propylamine			XXX	
20	Extractables, Acid (Phenolics)	2,3,4,5-Tetrachlorophenol			XXX	
		2,3,4,6-Tetrachlorophenol			XXX	
		2,3,5,6-Tetrachlorophenol			XXX	
		2,3,4-Trichlorophenol			XXX	
		2,3,5-Trichlorophenol			XXX	
		2,4,5-Trichlorophenol			XXX	
		2,4,6-Trichlorophenol			XXX	
		2,4-Dimethyl phenol			XXX	
		2,4-Dinitrophenol			XXX	
		2,4-Dichlorophenol			XXX	
		2,6-Dichlorophenol			XXX	
		4,6-Dinitro-o-cresol			XXX	
		2-Chlorophenol			XXX	
		4-Chloro-3-methylphenol			XXX	
		4-Nitrophenol			XXX	
		m-Cresol			XXX	
		o-Cresol			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE F - GRAPHITE CATEGORY

		EFFLUENT STREAM TYPE:	Graphite Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	S A/A	M
	ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED				
20	Extractables, Acid (Phenolics) (continued)	p-Cresol			XXX	
		Pentachlorophenol			XXX	
		Phenol			XXX	
24	Chlorinated Dibenzo-p-dioxins and Dibenzofurans (but see section 10)	2,3,7,8-Tetrachlorodibenzo-p-dioxin				
		Octachlorodibenzo-p-dioxin				
		Octachlorodibenzofuran				
		Total heptachlorinated dibenzo-p-dioxins				
		Total heptachlorinated dibenzofurans				
		Total hexachlorinated dibenzo-p-dioxins				
		Total hexachlorinated dibenzofurans				
		Total pentachlorinated dibenzo-p-dioxins				
		Total pentachlorinated dibenzofurans				
		Total tetrachlorinated dibenzo-p-dioxins				
		Total tetrachlorinated dibenzofurans				
25	Solvent Extractables	Oil and grease	XXX			XXX
27	Polychlorinated Biphenyls (but see subsection 9(6))	PCBs (Total)			XXX	
28a	Open Characterization - Volatiles				XXX	
28b	Open Characterization - Extractables				XXX	
29	Open Characterization - Elemental	Aluminum			XXX	
		Antimony			XXX	
		Arsenic			XXX	
		Barium			XXX	
		Beryllium			XXX	
		Bismuth			XXX	
		Boron			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE F - GRAPHITE CATEGORY

		EFFLUENT STREAM TYPE:	Graphite Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
29	Open Characterization - Elemental (continued)	Cadmium			XXX	
		Calcium			XXX	
		Cerium			XXX	
		Cesium			XXX	
		Chromium			XXX	
		Cobalt			XXX	
		Copper			XXX	
		Dysprosium			XXX	
		Erbium			XXX	
		Europium			XXX	
		Gadolinium			XXX	
		Gallium			XXX	
		Germanium			XXX	
		Gold			XXX	
		Hafnium			XXX	
		Holmium			XXX	
		Indium			XXX	
		Iridium			XXX	
		Iron			XXX	
		Lanthanum			XXX	
		Lead			XXX	
		Lithium			XXX	
		Lutetium			XXX	
		Magnesium			XXX	
		Manganese			XXX	
		Mercury			XXX	
		Molybdenum			XXX	
		Neodymium			XXX	
		Nickel			XXX	
		Niobium			XXX	
		Osmium			XXX	
		Palladium			XXX	
		Phosphorus			XXX	
		Platinum			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE F - GRAPHITE CATEGORY

		EFFLUENT STREAM TYPE:	Graphite Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
29	Open Characterization - Elemental (continued)	Potassium			XXX	
		Praesodymium			XXX	
		Rhenium			XXX	
		Rhodium			XXX	
		Rubidium			XXX	
		Ruthenium			XXX	
		Samarium			XXX	
		Scandium			XXX	
		Selenium			XXX	
		Silicon			XXX	
		Silver			XXX	
		Sodium			XXX	
		Strontium			XXX	
		Sulfur			XXX	
		Tantalum			XXX	
		Tellurium			XXX	
		Terbium			XXX	
		Thallium			XXX	
		Thorium			XXX	
		Thulium			XXX	
		Tin			XXX	
		Titanium			XXX	
		Tungsten			XXX	
		Uranium			XXX	
		Vanadium			XXX	
		Ytterbium			XXX	
		Yttrium			XXX	
		Zinc			XXX	
		Zirconium			XXX	
IM4	Sulphate	Sulphate			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE G - GYPSUM CATEGORY

		EFFLUENT STREAM TYPE:	Minewater			Gypsum Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
3	Hydrogen ion (pH)	Hydrogen ion (pH)	XXX			XXX			XXX
4a	Nitrogen	Ammonia plus Ammonium		XXX				XXX	XXX
		Total Kjeldahl nitrogen							
4b		Nitrate + Nitrite			XXX			XXX	XXX
5a	Organic carbon	Dissolved organic carbon (DOC)			XXX			XXX	
5b		Total organic carbon (TOC)							
6	Total phosphorus	Total phosphorus			XXX			XXX	
7	Specific conductance	Specific conductance			XXX			XXX	XXX
8	Suspended solids	Total suspended solids (TSS)	XXX			XXX			XXX
		Volatile suspended solids (VSS)							
9	Total metals	Aluminum			XXX			XXX	
		Beryllium			XXX			XXX	
		Cadmium			XXX			XXX	
		Chromium			XXX			XXX	
		Cobalt			XXX			XXX	
		Copper			XXX			XXX	
		Lead			XXX			XXX	
		Molybdenum			XXX			XXX	
		Nickel			XXX			XXX	
		Silver			XXX			XXX	
		Thallium			XXX			XXX	
		Vanadium			XXX			XXX	
		Zinc			XXX			XXX	
11	Chromium (Hexavalent)	Chromium (Hexavalent)			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE G - GYPSUM CATEGORY

		EFFLUENT STREAM TYPE:	Minewater			Gypsum Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
12	Mercury	Mercury			XXX			XXX	
14	Phenolics (4AAP)	Phenolics (4AAP)		XXX			XXX		XXX
15	Sulphide	Sulphide			XXX			XXX	
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane			XXX			XXX	
		1,1,2-Trichloroethane			XXX			XXX	
		1,1-Dichloroethane			XXX			XXX	
		1,1-Dichloroethylene			XXX			XXX	
		1,2-Dichlorobenzene			XXX			XXX	
		1,2-Dichloroethane (Ethylene dichloride)			XXX			XXX	
		1,2-Dichloropropane			XXX			XXX	
		1,3-Dichlorobenzene			XXX			XXX	
		1,4-Dichlorobenzene			XXX			XXX	
		Bromoform			XXX			XXX	
		Bromomethane			XXX			XXX	
		Carbon tetrachloride			XXX			XXX	
		Chlorobenzene			XXX			XXX	
		Chloroform			XXX			XXX	
		Chloromethane			XXX			XXX	
		Cis-1,3-Dichloropropylene			XXX			XXX	
		Dibromochloromethane			XXX			XXX	
		Ethylene dibromide			XXX			XXX	
		Methylene chloride			XXX			XXX	
		Tetrachloroethylene (Perchloroethylene)			XXX			XXX	
		Trans-1,2-Dichloroethylene			XXX			XXX	
		Trans-1,3-Dichloropropylene			XXX			XXX	
		Trichloroethylene			XXX			XXX	
		Trichlorofluoromethane			XXX			XXX	
		Vinyl chloride (Chloroethylene)			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE G - GYPSUM CATEGORY

		EFFLUENT STREAM TYPE:	Minewater			Gypsum Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
17	Volatiles, Non-Halogenated	Benzene			XXX			XXX	
		Styrene			XXX			XXX	
		Toluene			XXX			XXX	
		o-Xylene			XXX			XXX	
		m-Xylene and p-Xylene			XXX			XXX	
19	Extractables, Base Neutral	Acenaphthene			XXX			XXX	
		5-nitro Acenaphthene			XXX			XXX	
		Acenaphthylene			XXX			XXX	
		Anthracene			XXX			XXX	
		Benz(a)anthracene			XXX			XXX	
		Benzo(a)pyrene			XXX			XXX	
		Benzo(b)fluoranthene			XXX			XXX	
		Benzo(g,h,i)perylene			XXX			XXX	
		Benzo(k)fluoranthene			XXX			XXX	
		Camphene			XXX			XXX	
		1-Chloronaphthalene			XXX			XXX	
		2-Chloronaphthalene			XXX			XXX	
		Chrysene			XXX			XXX	
		Dibenz(a,h)anthracene			XXX			XXX	
		Fluoranthene			XXX			XXX	
		Fluorene			XXX			XXX	
		Indeno(1,2,3-cd)pyrene			XXX			XXX	
		Indole			XXX			XXX	
		1-Methylnaphthalene			XXX			XXX	
		2-Methylnaphthalene			XXX			XXX	
		Naphthalene			XXX			XXX	
		Perylene			XXX			XXX	
		Phenanthrene			XXX			XXX	
		Pyrene			XXX			XXX	
		Benzyl butyl phthalate			XXX			XXX	
		Bis(2-Ethylhexyl) phthalate			XXX			XXX	
		Di-n-butyl phthalate			XXX			XXX	
		4-Bromophenyl phenyl ether			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE G - GYPSUM CATEGORY

		EFFLUENT STREAM TYPE:	Minewater			Gypsum Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
19	Extractables, Base Neutral (continued)	4-Chlorophenyl phenyl ether			XXX			XXX	
		Bis(2-Chloroisopropyl)ether			XXX			XXX	
		Bis(2-Chloroethyl)ether			XXX			XXX	
		2,4-Dinitrotoluene			XXX			XXX	
		2,6-Dinitrotoluene			XXX			XXX	
		Bis(2-Chloroethoxy)methane			XXX			XXX	
		Diphenylamine			XXX			XXX	
		N-Nitrosodiphenylamine			XXX			XXX	
		N-Nitrosodi-n-propylamine			XXX			XXX	
20	Extractables, Acid (Phenolics)	2,3,4,5-Tetrachlorophenol			XXX			XXX	
		2,3,4,6-Tetrachlorophenol			XXX			XXX	
		2,3,5,6-Tetrachlorophenol			XXX			XXX	
		2,3,4-Trichlorophenol			XXX			XXX	
		2,3,5-Trichlorophenol			XXX			XXX	
		2,4,5-Trichlorophenol			XXX			XXX	
		2,4,6-Trichlorophenol			XXX			XXX	
		2,4-Dimethyl phenol			XXX			XXX	
		2,4-Dinitrophenol			XXX			XXX	
		2,4-Dichlorophenol			XXX			XXX	
		2,6-Dichlorophenol			XXX			XXX	
		4,6-Dinitro-o-cresol			XXX			XXX	
		2-Chlorophenol			XXX			XXX	
		4-Chloro-3-methylphenol			XXX			XXX	
		4-Nitrophenol			XXX			XXX	
		m-Cresol			XXX			XXX	
		o-Cresol			XXX			XXX	
		p-Cresol			XXX			XXX	
		Pentachlorophenol			XXX			XXX	
		Phenol			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE G - GYPSUM CATEGORY

		EFFLUENT STREAM TYPE:	Minewater			Gypsum Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
24	Chlorinated Dibenzo-p-dioxins and Dibenzofurans (but see section 10)	2,3,7,8-Tetrachlorodibenzo-p-dioxin							
		Octachlorodibenzo-p-dioxin							
		Octachlorodibenzofuran							
		Total heptachlorinated dibenzo-p-dioxins							
		Total heptachlorinated dibenzofurans							
		Total hexachlorinated dibenzo-p-dioxins							
		Total hexachlorinated dibenzofurans							
		Total pentachlorinated dibenzo-p-dioxins							
		Total pentachlorinated dibenzofurans							
		Total tetrachlorinated dibenzo-p-dioxins							
		Total tetrachlorinated dibenzofurans							
25	Solvent Extractables	Oil and grease	XXX			XXX			XXX
27	Polychlorinated Biphenyls (but see subsection 9(6))	PCBs (Total)			XXX			XXX	
28a	Open Characterization - Volatiles				XXX			XXX	
28b	Open Characterization - Extractables				XXX			XXX	
29	Open Characterization - Elemental	Aluminum			XXX			XXX	
		Antimony			XXX			XXX	
		Arsenic			XXX			XXX	
		Barium			XXX			XXX	
		Beryllium			XXX			XXX	
		Bismuth			XXX			XXX	
		Boron			XXX			XXX	
		Cadmium			XXX			XXX	
		Calcium			XXX			XXX	
		Cerium			XXX			XXX	
		Cesium			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE G - GYPSUM CATEGORY

		EFFLUENT STREAM TYPE:	Minewater			Gypsum Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
29	Open Characterization - Elemental (continued)	Chromium			XXX			XXX	
		Cobalt			XXX			XXX	
		Copper			XXX			XXX	
		Dysprosium			XXX			XXX	
		Erbium			XXX			XXX	
		Europium			XXX			XXX	
		Gadolinium			XXX			XXX	
		Gallium			XXX			XXX	
		Germanium			XXX			XXX	
		Gold			XXX			XXX	
		Hafnium			XXX			XXX	
		Holmium			XXX			XXX	
		Indium			XXX			XXX	
		Iridium			XXX			XXX	
		Iron			XXX			XXX	
		Lanthanum			XXX			XXX	
		Lead			XXX			XXX	
		Lithium			XXX			XXX	
		Lutetium			XXX			XXX	
		Magnesium			XXX			XXX	
		Manganese			XXX			XXX	
		Mercury			XXX			XXX	
		Molybdenum			XXX			XXX	
		Neodymium			XXX			XXX	
		Nickel			XXX			XXX	
		Niobium			XXX			XXX	
		Osmium			XXX			XXX	
		Palladium			XXX			XXX	
		Phosphorus			XXX			XXX	
		Platinum			XXX			XXX	
		Potassium			XXX			XXX	
		Praesodymium			XXX			XXX	
		Rhenium			XXX			XXX	
		Rhodium			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE G - GYPSUM CATEGORY

		EFFLUENT STREAM TYPE:	Minewater			Gypsum Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
29	Open Characterization - Elemental (continued)	Rubidium			XXX			XXX	
		Ruthenium			XXX			XXX	
		Samarium			XXX			XXX	
		Scandium			XXX			XXX	
		Selenium			XXX			XXX	
		Silicon			XXX			XXX	
		Silver			XXX			XXX	
		Sodium			XXX			XXX	
		Strontium			XXX			XXX	
		Sulfur			XXX			XXX	
		Tantalum			XXX			XXX	
		Tellurium			XXX			XXX	
		Terbium			XXX			XXX	
		Thallium			XXX			XXX	
		Thorium			XXX			XXX	
		Thulium			XXX			XXX	
		Tin			XXX			XXX	
		Titanium			XXX			XXX	
		Tungsten			XXX			XXX	
		Uranium			XXX			XXX	
		Vanadium			XXX			XXX	
		Ytterbium			XXX			XXX	
		Yttrium			XXX			XXX	
		Zinc			XXX			XXX	
		Zirconium			XXX			XXX	
IM1	Chloride	Chloride			XXX			XXX	
IM4	Sulphate	Sulphate			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE H - MAGNESIUM CATEGORY

		EFFLUENT STREAM TYPE:	Magnesium Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
2	Total cyanide	Total cyanide			XXX	XXX
3	Hydrogen ion (pH)	Hydrogen ion (pH)	XXX			XXX
4a	Nitrogen	Ammonia plus Ammonium		XXX		XXX
		Total Kjeldahl nitrogen				
4b		Nitrate + Nitrite				
5a	Organic carbon	Dissolved organic carbon (DOC)			XXX	
5b		Total organic carbon (TOC)				
6	Total phosphorus	Total phosphorus			XXX	
7	Specific conductance	Specific conductance			XXX	
8	Suspended solids	Total suspended solids (TSS)	XXX			XXX
		Volatile suspended solids (VSS)				
9	Total metals	Aluminum			XXX	
		Beryllium			XXX	
		Cadmium			XXX	
		Chromium			XXX	
		Cobalt			XXX	
		Copper			XXX	
		Lead			XXX	
		Molybdenum			XXX	
		Nickel			XXX	
		Silver			XXX	
		Thallium			XXX	
		Vanadium			XXX	
		Zinc			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE H - MAGNESIUM CATEGORY

		EFFLUENT STREAM TYPE:	Magnesium Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
11	Chromium (Hexavalent)	Chromium (Hexavalent)			XXX	
12	Mercury	Mercury			XXX	
14	Phenolics (4AAP)	Phenolics (4AAP)		XXX		XXX
15	Sulphide	Sulphide			XXX	
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane			XXX	
		1,1,2-Trichloroethane			XXX	
		1,1-Dichloroethane			XXX	
		1,1-Dichloroethylene			XXX	
		1,2-Dichlorobenzene			XXX	
		1,2-Dichloroethane (Ethylene dichloride)			XXX	
		1,2-Dichloropropane			XXX	
		1,3-Dichlorobenzene			XXX	
		1,4-Dichlorobenzene			XXX	
		Bromoform			XXX	
		Bromomethane			XXX	
		Carbon tetrachloride			XXX	
		Chlorobenzene			XXX	
		Chloroform			XXX	
		Chloromethane			XXX	
		Cis-1,3-Dichloropropylene			XXX	
		Dibromochloromethane			XXX	
		Ethylene dibromide			XXX	
		Methylene chloride			XXX	
		Tetrachloroethylene (Perchloroethylene)			XXX	
		Trans-1,2-Dichloroethylene			XXX	
		Trans-1,3-Dichloropropylene			XXX	
		Trichloroethylene			XXX	
		Trichlorofluoromethane			XXX	
		Vinyl chloride (Chloroethylene)			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE H - MAGNESIUM CATEGORY

		EFFLUENT STREAM TYPE:	Magnesium Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
17	Volatiles, Non-Halogenated	Benzene			XXX	
		Styrene			XXX	
		Toluene			XXX	
		o-Xylene			XXX	
		m-Xylene and p-Xylene			XXX	
19	Extractables, Base Neutral	Acenaphthene			XXX	
		5-nitro Acenaphthene			XXX	
		Acenaphthylene			XXX	
		Anthracene			XXX	
		Benz(a)anthracene			XXX	
		Benzo(a)pyrene			XXX	
		Benzo(b)fluoranthene			XXX	
		Benzo(g,h,i)perylene			XXX	
		Benzo(k)fluoranthene			XXX	
		Camphene			XXX	
		1-Chloronaphthalene			XXX	
		2-Chloronaphthalene			XXX	
		Chrysene			XXX	
		Dibenz(a,h)anthracene			XXX	
		Fluoranthene			XXX	
		Fluorene			XXX	
		Indeno(1,2,3-cd)pyrene			XXX	
		Indole			XXX	
		1-Methylnaphthalene			XXX	
		2-Methylnaphthalene			XXX	
		Naphthalene			XXX	
		Perylene			XXX	
		Phenanthrene			XXX	
		Pyrene			XXX	
		Benzyl butyl phthalate			XXX	
		Bis(2-Ethylhexyl) phthalate			XXX	
		Di-n-butyl phthalate			XXX	
		4-Bromophenyl phenyl ether			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE H - MAGNESIUM CATEGORY

		EFFLUENT STREAM TYPE:	Magnesium Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
19	Extractables, Base Neutral (continued)	4-Chlorophenyl phenyl ether			XXX	
		Bis(2-Chloroisopropyl)ether			XXX	
		Bis(2-Chloroethyl)ether			XXX	
		2,4-Dinitrotoluene			XXX	
		2,6-Dinitrotoluene			XXX	
		Bis(2-Chloroethoxy)methane			XXX	
		Diphenylamine			XXX	
		N-Nitrosodiphenylamine			XXX	
		N-Nitrosodi-n-propylamine			XXX	
20	Extractables, Acid (Phenolics)	2,3,4,5-Tetrachlorophenol			XXX	
		2,3,4,6-Tetrachlorophenol			XXX	
		2,3,5,6-Tetrachlorophenol			XXX	
		2,3,4-Trichlorophenol			XXX	
		2,3,5-Trichlorophenol			XXX	
		2,4,5-Trichlorophenol			XXX	
		2,4,6-Trichlorophenol			XXX	
		2,4-Dimethyl phenol			XXX	
		2,4-Dinitrophenol			XXX	
		2,4-Dichlorophenol			XXX	
		2,6-Dichlorophenol			XXX	
		4,6-Dinitro-o-cresol			XXX	
		2-Chlorophenol			XXX	
		4-Chloro-3-methylphenol			XXX	
		4-Nitrophenol			XXX	
		m-Cresol			XXX	
		o-Cresol			XXX	
		p-Cresol			XXX	
		Pentachlorophenol			XXX	
		Phenol			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE H - MAGNESIUM CATEGORY

		EFFLUENT STREAM TYPE:	Magnesium Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
24	Chlorinated Dibenzo-p-dioxins and Dibenzofurans (but see section 10)	2,3,7,8-Tetrachlorodibenzo-p-dioxin				
		Octachlorodibenzo-p-dioxin				
		Octachlorodibenzofuran				
		Total heptachlorinated dibenzo-p-dioxins				
		Total heptachlorinated dibenzofurans				
		Total hexachlorinated dibenzo-p-dioxins				
		Total hexachlorinated dibenzofurans				
		Total pentachlorinated dibenzo-p-dioxins				
		Total pentachlorinated dibenzofurans				
		Total tetrachlorinated dibenzo-p-dioxins				
		Total tetrachlorinated dibenzofurans				
25	Solvent Extractables	Oil and grease	XXX			XXX
27	Polychlorinated Biphenyls (but see subsection 9(6))	PCBs (Total)			XXX	
28a	Open Characterization - Volatiles				XXX	
28b	Open Characterization - Extractables				XXX	
29	Open Characterization - Elemental	Aluminum			XXX	
		Antimony			XXX	
		Arsenic			XXX	
		Barium			XXX	
		Beryllium			XXX	
		Bismuth			XXX	
		Boron			XXX	
		Cadmium			XXX	
		Calcium			XXX	
		Cerium			XXX	
		Cesium			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE H - MAGNESIUM CATEGORY

		EFFLUENT STREAM TYPE:	Magnesium Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
29	Open Characterization - Elemental (continued)	Chromium			XXX	
		Cobalt			XXX	
		Copper			XXX	
		Dysprosium			XXX	
		Erbium			XXX	
		Europium			XXX	
		Gadolinium			XXX	
		Gallium			XXX	
		Germanium			XXX	
		Gold			XXX	
		Hafnium			XXX	
		Holmium			XXX	
		Indium			XXX	
		Iridium			XXX	
		Iron			XXX	
		Lanthanum			XXX	
		Lead			XXX	
		Lithium			XXX	
		Lutetium			XXX	
		Magnesium			XXX	
		Manganese			XXX	
		Mercury			XXX	
		Molybdenum			XXX	
		Neodymium			XXX	
		Nickel			XXX	
		Niobium			XXX	
		Osmium			XXX	
		Palladium			XXX	
		Phosphorus			XXX	
		Platinum			XXX	
		Potassium			XXX	
		Praesodymium			XXX	
		Rhenium			XXX	
		Rhodium			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE H - MAGNESIUM CATEGORY

		EFFLUENT STREAM TYPE:	Magnesium Plant			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED				
29	Open Characterization - Elemental (continued)	Rubidium			XXX	
		Ruthenium			XXX	
		Samarium			XXX	
		Scandium			XXX	
		Selenium			XXX	
		Silicon			XXX	
		Silver			XXX	
		Sodium			XXX	
		Strontium			XXX	
		Sulfur			XXX	
		Tantalum			XXX	
		Tellurium			XXX	
		Terbium			XXX	
		Thallium			XXX	
		Thorium			XXX	
		Thulium			XXX	
		Tin			XXX	
		Titanium			XXX	
		Tungsten			XXX	
		Uranium			XXX	
		Vanadium			XXX	
		Ytterbium			XXX	
		Yttrium			XXX	
		Zinc			XXX	
		Zirconium			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR

SCHEDULE I - QUARRIES CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Wash Water			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
2	Total cyanide	Total cyanide			XXX			XXX	
3	Hydrogen ion (pH)	Hydrogen ion (pH)	XXX			XXX			XXX
4a	Nitrogen	Ammonia plus Ammonium		XXX				XXX	XXX
		Total Kjeldahl nitrogen							
4b		Nitrate + Nitrite			XXX			XXX	XXX
5a	Organic carbon	Dissolved organic carbon (DOC)			XXX			XXX	
5b		Total organic carbon (TOC)							
6	Total phosphorus	Total phosphorus			XXX			XXX	
7	Specific conductance	Specific conductance			XXX			XXX	XXX
8	Suspended solids	Total suspended solids (TSS)	XXX			XXX			XXX
		Volatile suspended solids (VSS)							
9	Total metals	Aluminum			XXX			XXX	
		Beryllium			XXX			XXX	
		Cadmium			XXX			XXX	
		Chromium			XXX			XXX	
		Cobalt			XXX			XXX	
		Copper			XXX			XXX	
		Lead			XXX			XXX	
		Molybdenum			XXX			XXX	
		Nickel			XXX			XXX	
		Silver			XXX			XXX	
		Thallium			XXX			XXX	
		Vanadium			XXX			XXX	
		Zinc			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE I - QUARRIES CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Wash Water			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
	ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED							
11	Chromium (Hexavalent)	Chromium (Hexavalent)			XXX			XXX	
12	Mercury	Mercury			XXX			XXX	
14	Phenolics (4AAP)	Phenolics (4AAP)		XXX			XXX		XXX
15	Sulphide	Sulphide			XXX			XXX	
16	Volatiles, Halogenated (but see subsection 7(7))	1,1,2,2-Tetrachloroethane		XXX	XXX			XXX	
		1,1,2-Trichloroethane		XXX	XXX			XXX	
		1,1-Dichloroethane		XXX	XXX			XXX	
		1,1-Dichloroethylene		XXX	XXX			XXX	
		1,2-Dichlorobenzene		XXX	XXX			XXX	
		1,2-Dichloroethane (Ethylene dichloride)		XXX	XXX			XXX	
		1,2-Dichloropropane		XXX	XXX			XXX	
		1,3-Dichlorobenzene		XXX	XXX			XXX	
		1,4-Dichlorobenzene		XXX	XXX			XXX	
		Bromoform		XXX	XXX			XXX	
		Bromomethane		XXX	XXX			XXX	
		Carbon tetrachloride		XXX	XXX			XXX	
		Chlorobenzene		XXX	XXX			XXX	
		Chloroform		XXX	XXX			XXX	
		Chloromethane		XXX	XXX			XXX	
		Cis-1,3-Dichloropropylene		XXX	XXX			XXX	
		Dibromochloromethane		XXX	XXX			XXX	
		Ethylene dibromide		XXX	XXX			XXX	
		Methylene chloride		XXX	XXX			XXX	
		Tetrachloroethylene (Perchloroethylene)		XXX	XXX			XXX	
		Trans-1,2-Dichloroethylene		XXX	XXX			XXX	
		Trans-1,3-Dichloropropylene		XXX	XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE I - QUARRIES CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Wash Water			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
16	Volatiles, Halogenated (but see subsection 7(7))	Trichloroethylene		XXX	XXX			XXX	
		Trichlorofluoromethane		XXX	XXX			XXX	
		Vinyl chloride (Chloroethylene)		XXX	XXX			XXX	
17	Volatiles, Non-Halogenated	Benzene			XXX			XXX	
		Styrene			XXX			XXX	
		Toluene			XXX			XXX	
		o-Xylene			XXX			XXX	
		m-Xylene and p-Xylene			XXX			XXX	
19	Extractables, Base Neutral	Acenaphthene			XXX			XXX	
		5-nitro Acenaphthene			XXX			XXX	
		Acenaphthylene			XXX			XXX	
		Anthracene			XXX			XXX	
		Benz(a)anthracene			XXX			XXX	
		Benzo(a)pyrene			XXX			XXX	
		Benzo(b)fluoranthene			XXX			XXX	
		Benzo(g,h,i)perylene			XXX			XXX	
		Benzo(k)fluoranthene			XXX			XXX	
		Camphene			XXX			XXX	
		1-Chloronaphthalene			XXX			XXX	
		2-Chloronaphthalene			XXX			XXX	
		Chrysene			XXX			XXX	
		Dibenz(a,h)anthracene			XXX			XXX	
		Fluoranthene			XXX			XXX	
		Fluorene			XXX			XXX	
		Indeno(1,2,3-cd)pyrene			XXX			XXX	
		Indole			XXX			XXX	
		1-Methylnaphthalene			XXX			XXX	
		2-Methylnaphthalene			XXX			XXX	
		Naphthalene			XXX			XXX	
		Perylene			XXX			XXX	
		Phenanthrene			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE I - QUARRIES CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Wash Water			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
19	Extractables, Base Neutral (continued)	Pyrene			XXX			XXX	
		Benzyl butyl phthalate			XXX			XXX	
		Bis(2-Ethylhexyl) phthalate			XXX			XXX	
		Di-n-butyl phthalate			XXX			XXX	
		4-Bromophenyl phenyl ether			XXX			XXX	
		4-Chlorophenyl phenyl ether			XXX			XXX	
		Bis(2-Chloroisopropyl)ether			XXX			XXX	
		Bis(2-Chloroethyl)ether			XXX			XXX	
		2,4-Dinitrotoluene			XXX			XXX	
		2,6-Dinitrotoluene			XXX			XXX	
		Bis(2-Chloroethoxy)methane			XXX			XXX	
		Diphenylamine			XXX			XXX	
		N-Nitrosodiphenylamine			XXX			XXX	
		N-Nitrosodi-n-propylamine			XXX			XXX	
20	Extractables, Acid (Phenolics)	2,3,4,5-Tetrachlorophenol			XXX			XXX	
		2,3,4,6-Tetrachlorophenol			XXX			XXX	
		2,3,5,6-Tetrachlorophenol			XXX			XXX	
		2,3,4-Trichlorophenol			XXX			XXX	
		2,3,5-Trichlorophenol			XXX			XXX	
		2,4,5-Trichlorophenol			XXX			XXX	
		2,4,6-Trichlorophenol			XXX			XXX	
		2,4-Dimethyl phenol			XXX			XXX	
		2,4-Dinitrophenol			XXX			XXX	
		2,4-Dichlorophenol			XXX			XXX	
		2,6-Dichlorophenol			XXX			XXX	
		4,6-Dinitro-o-cresol			XXX			XXX	
		2-Chlorophenol			XXX			XXX	
		4-Chloro-3-methylphenol			XXX			XXX	
		4-Nitrophenol			XXX			XXX	
		m-Cresol			XXX			XXX	
		o-Cresol			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE I - QUARRIES CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Wash Water			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
20	Extractables, Acid (Phenolics)	p-Cresol			XXX			XXX	
		Pentachlorophenol			XXX			XXX	
		Phenol			XXX			XXX	
24	Chlorinated Dibenzo-p-dioxins and Dibenzofurans (but see section 10)	2,3,7,8-Tetrachlorodibenzo-p-dioxin							
		Octachlorodibenzo-p-dioxin							
		Octachlorodibenzofuran							
		Total heptachlorinated dibenzo-p-dioxins							
		Total heptachlorinated dibenzofurans							
		Total hexachlorinated dibenzo-p-dioxins							
		Total hexachlorinated dibenzofurans							
		Total pentachlorinated dibenzo-p-dioxins							
		Total pentachlorinated dibenzofurans							
		Total tetrachlorinated dibenzo-p-dioxins							
		Total tetrachlorinated dibenzofurans							
25	Solvent Extractables	Oil and grease	XXX			XXX			XXX
27	Polychlorinated Biphenyls (but see subsection 9(6))	PCBs (Total)			XXX			XXX	
28a	Open Characterization - Volatiles				XXX			XXX	
28b	Open Characterization - Extractables				XXX			XXX	
29	Open Characterization - Elemental	Aluminum			XXX			XXX	
		Antimony			XXX			XXX	
		Arsenic			XXX			XXX	
		Barium			XXX			XXX	
		Beryllium			XXX			XXX	
		Bismuth			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE I - QUARRIES CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Wash Water			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
29	Open Characterization - Elemental (continued)	Boron			XXX			XXX	
		Cadmium			XXX			XXX	
		Calcium			XXX			XXX	
		Cerium			XXX			XXX	
		Cesium			XXX			XXX	
		Chromium			XXX			XXX	
		Cobalt			XXX			XXX	
		Copper			XXX			XXX	
		Dysprosium			XXX			XXX	
		Erbium			XXX			XXX	
		Europium			XXX			XXX	
		Gadolinium			XXX			XXX	
		Gallium			XXX			XXX	
		Germanium			XXX			XXX	
		Gold			XXX			XXX	
		Hafnium			XXX			XXX	
		Holmium			XXX			XXX	
		Indium			XXX			XXX	
		Iridium			XXX			XXX	
		Iron			XXX			XXX	
		Lanthanum			XXX			XXX	
		Lead			XXX			XXX	
		Lithium			XXX			XXX	
		Lutetium			XXX			XXX	
		Magnesium			XXX			XXX	
		Manganese			XXX			XXX	
		Mercury			XXX			XXX	
		Molybdenum			XXX			XXX	
		Neodymium			XXX			XXX	
		Nickel			XXX			XXX	
		Niobium			XXX			XXX	
		Osmium			XXX			XXX	
		Palladium			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE I - QUARRIES CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Wash Water			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
29	Open Characterization - Elemental (continued)	Phosphorus			XXX			XXX	
		Platinum			XXX			XXX	
		Potassium			XXX			XXX	
		Praesodymium			XXX			XXX	
		Rhenium			XXX			XXX	
		Rhodium			XXX			XXX	
		Rubidium			XXX			XXX	
		Ruthenium			XXX			XXX	
		Samarium			XXX			XXX	
		Scandium			XXX			XXX	
		Selenium			XXX			XXX	
		Silicon			XXX			XXX	
		Silver			XXX			XXX	
		Sodium			XXX			XXX	
		Strontium			XXX			XXX	
		Sulfur			XXX			XXX	
		Tantalum			XXX			XXX	
		Tellurium			XXX			XXX	
		Terbium			XXX			XXX	
		Thallium			XXX			XXX	
		Thorium			XXX			XXX	
		Thulium			XXX			XXX	
		Tin			XXX			XXX	
		Titanium			XXX			XXX	
		Tungsten			XXX			XXX	
		Uranium			XXX			XXX	
		Vanadium			XXX			XXX	
		Ytterbium			XXX			XXX	
		Yttrium			XXX			XXX	
		Zinc			XXX			XXX	
		Zirconium			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE I - QUARRIES CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Wash Water			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	S A/A	3W	M	S A/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
IM1	Chloride	Chloride			XXX			XXX	
IM4	Sulphate	Sulphate			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE J - SAND AND GRAVEL CATEGORY

		EFFLUENT STREAM TYPE:	Wash Water		
		FREQUENCY OF SAMPLING:	3W	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED			
2	Total cyanide	Total cyanide			XXX
3	Hydrogen ion (pH)	Hydrogen ion (pH)	XXX		
5a	Organic carbon	Dissolved organic carbon (DOC)			XXX
5b		Total organic carbon (TOC)			
6	Total phosphorus	Total phosphorus			XXX
7	Specific conductance	Specific conductance			XXX
8	Suspended solids	Total suspended solids (TSS)	XXX		
		Volatile suspended solids (VSS)			
9	Total metals	Aluminum			XXX
		Beryllium			XXX
		Cadmium			XXX
		Chromium			XXX
		Cobalt			XXX
		Copper			XXX
		Lead			XXX
		Molybdenum			XXX
		Nickel			XXX
		Silver			XXX
		Thallium			XXX
		Vanadium			XXX
		Zinc			XXX
11	Chromium (Hexavalent)	Chromium (Hexavalent)			XXX
12	Mercury	Mercury			XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE J - SAND AND GRAVEL CATEGORY

		EFFLUENT STREAM TYPE:	Wash Water		
		FREQUENCY OF SAMPLING:	3W	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED			
14	Phenolics (4AAP)	Phenolics (4AAP)		XXX	
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane			XXX
		1,1,2-Trichloroethane			XXX
		1,1-Dichloroethane			XXX
		1,1-Dichloroethylene			XXX
		1,2-Dichlorobenzene			XXX
		1,2-Dichloroethane (Ethylene dichloride)			XXX
		1,2-Dichloropropane			XXX
		1,3-Dichlorobenzene			XXX
		1,4-Dichlorobenzene			XXX
		Bromoform			XXX
		Bromomethane			XXX
		Carbon tetrachloride			XXX
		Chlorobenzene			XXX
		Chloroform			XXX
		Chloromethane			XXX
		Cis-1,3-Dichloropropylene			XXX
		Dibromochloromethane			XXX
		Ethylene dibromide			XXX
		Methylene chloride			XXX
		Tetrachloroethylene (Perchloroethylene)			XXX
		Trans-1,2-Dichloroethylene			XXX
		Trans-1,3-Dichloropropylene			XXX
		Trichloroethylene			XXX
		Trichlorofluoromethane			XXX
		Vinyl chloride (Chloroethylene)			XXX
17	Volatiles, Non-Halogenated	Benzene			XXX
		Styrene			XXX
		Toluene			XXX
		o-Xylene			XXX
		m-Xylene and p-Xylene			XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE J - SAND AND GRAVEL CATEGORY

		EFFLUENT STREAM TYPE:	Wash Water		
		FREQUENCY OF SAMPLING:	3W	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED			
19	Extractables, Base Neutral	Acenaphthene			XXX
		5-nitro Acenaphthene			XXX
		Acenaphthylene			XXX
		Anthracene			XXX
		Benz(a)anthracene			XXX
		Benzo(a)pyrene			XXX
		Benzo(b)fluoranthene			XXX
		Benzo(g,h,i)perylene			XXX
		Benzo(k)fluoranthene			XXX
		Camphene			XXX
		1-Chloronaphthalene			XXX
		2-Chloronaphthalene			XXX
		Chrysene			XXX
		Dibenz(a,h)anthracene			XXX
		Fluoranthene			XXX
		Fluorene			XXX
		Indeno(1,2,3-cd)pyrene			XXX
		Indole			XXX
		1-Methylnaphthalene			XXX
		2-Methylnaphthalene			XXX
		Naphthalene			XXX
		Perylene			XXX
		Phenanthrene			XXX
		Pyrene			XXX
		Benzyl butyl phthalate			XXX
		Bis(2-Ethylhexyl) phthalate			XXX
		Di-n-butyl phthalate			XXX
		4-Bromophenyl phenyl ether			XXX
		4-Chlorophenyl phenyl ether			XXX
		Bis(2-Chloroisopropyl)ether			XXX
		Bis(2-Chloroethyl)ether			XXX
		2,4-Dinitrotoluene			XXX
		2,6-Dinitrotoluene			XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE J - SAND AND GRAVEL CATEGORY

		EFFLUENT STREAM TYPE:	Wash Water		
		FREQUENCY OF SAMPLING:	3W	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED			
19	Extractables, Base Neutral (continued)	Bis(2-Chloroethoxy)methane			XXX
		Diphenylamine			XXX
		N-Nitrosodiphenylamine			XXX
		N-Nitrosodi-n-propylamine			XXX
20	Extractables, Acid (Phenolics)	2,3,4,5-Tetrachlorophenol			XXX
		2,3,4,6-Tetrachlorophenol			XXX
		2,3,5,6-Tetrachlorophenol			XXX
		2,3,4-Trichlorophenol			XXX
		2,3,5-Trichlorophenol			XXX
		2,4,5-Trichlorophenol			XXX
		2,4,6-Trichlorophenol			XXX
		2,4-Dimethyl phenol			XXX
		2,4-Dinitrophenol			XXX
		2,4-Dichlorophenol			XXX
		2,6-Dichlorophenol			XXX
		4,6-Dinitro-o-cresol			XXX
		2-Chlorophenol			XXX
		4-Chloro-3-methylphenol			XXX
		4-Nitrophenol			XXX
		m-Cresol			XXX
		o-Cresol			XXX
		p-Cresol			XXX
		Pentachlorophenol			XXX
		Phenol			XXX
24	Chlorinated Dibenzo-p-dioxins and Dibenzofurans (but see section 10)	2,3,7,8-Tetrachlorodibenzo-p-dioxin			
		Octachlorodibenzo-p-dioxin			
		Octachlorodibenzofuran			
		Total heptachlorinated dibenzo-p-dioxins			
		Total heptachlorinated dibenzofurans			
		Total hexachlorinated dibenzo-p-dioxins			
		Total hexachlorinated dibenzofurans			

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE J - SAND AND GRAVEL CATEGORY

		EFFLUENT STREAM TYPE:	Wash Water		
		FREQUENCY OF SAMPLING:	3W	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED			
24	Chlorinated Dibenzo-p-dioxins and Dibenzofurans (but see section 10)	Total pentachlorinated dibenzo-p-dioxins			
		Total pentachlorinated dibenzofurans			
		Total tetrachlorinated dibenzo-p-dioxins			
		Total tetrachlorinated dibenzofurans			
25	Solvent Extractables	Oil and grease	XXX		
27	Polychlorinated Biphenyls (but see subsection 9(6))	PCBs (Total)			XXX
28a	Open Characterization - Volatiles				XXX
28b	Open Characterization - Extractables				XXX
29	Open Characterization - Elemental	Aluminum			XXX
		Antimony			XXX
		Arsenic			XXX
		Barium			XXX
		Beryllium			XXX
		Bismuth			XXX
		Boron			XXX
		Cadmium			XXX
		Calcium			XXX
		Cerium			XXX
		Cesium			XXX
		Chromium			XXX
		Cobalt			XXX
		Copper			XXX
		Dysprosium			XXX
		Erbium			XXX
		Europium			XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE J - SAND AND GRAVEL CATEGORY

		EFFLUENT STREAM TYPE:	Wash Water		
		FREQUENCY OF SAMPLING:	3W	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED			
29	Open Characterization - Elemental (continued)	Gadolinium			XXX
		Gallium			XXX
		Germanium			XXX
		Gold			XXX
		Hafnium			XXX
		Holmium			XXX
		Indium			XXX
		Iridium			XXX
		Iron			XXX
		Lanthanum			XXX
		Lead			XXX
		Lithium			XXX
		Lutetium			XXX
		Magnesium			XXX
		Manganese			XXX
		Mercury			XXX
		Molybdenum			XXX
		Neodymium			XXX
		Nickel			XXX
		Niobium			XXX
		Osmium			XXX
		Palladium			XXX
		Phosphorus			XXX
		Platinum			XXX
		Potassium			XXX
		Praesodymium			XXX
		Rhenium			XXX
		Rhodium			XXX
		Rubidium			XXX
		Ruthenium			XXX
		Samarium			XXX
		Scandium			XXX
		Selenium			XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE J - SAND AND GRAVEL CATEGORY

		EFFLUENT STREAM TYPE:	Wash Water		
		FREQUENCY OF SAMPLING:	3W	M	SA/A
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED			
29	Open Characterization - Elemental (continued)	Silicon			XXX
		Silver			XXX
		Sodium			XXX
		Strontium			XXX
		Sulfur			XXX
		Tantalum			XXX
		Tellurium			XXX
		Terbium			XXX
		Thallium			XXX
		Thorium			XXX
		Thulium			XXX
		Tin			XXX
		Titanium			XXX
		Tungsten			XXX
		Uranium			XXX
		Vanadium			XXX
		Ytterbium			XXX
		Yttrium			XXX
		Zinc			XXX
		Zirconium			XXX

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE K - TALC CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Minewater			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
2	Total cyanide	Total cyanide			XXX			XXX	
3	Hydrogen ion (pH)	Hydrogen ion (pH)	XXX			XXX			XXX
4a	Nitrogen	Ammonia plus Ammonium		XXX			XXX		XXX
		Total Kjeldahl nitrogen							
4b		Nitrate + Nitrite			XXX			XXX	XXX
5a	Organic carbon	Dissolved organic carbon (DOC)			XXX			XXX	
5b		Total organic carbon (TOC)							
6	Total phosphorus	Total phosphorus			XXX			XXX	
7	Specific conductance	Specific conductance			XXX			XXX	XXX
8	Suspended solids	Total suspended solids (TSS)	XXX			XXX			XXX
		Volatile suspended solids (VSS)							
9	Total metals	Aluminum			XXX			XXX	
		Beryllium			XXX			XXX	
		Cadmium		XXX			XXX		XXX
		Chromium			XXX			XXX	
		Cobalt			XXX			XXX	
		Copper			XXX			XXX	
		Lead			XXX			XXX	
		Molybdenum			XXX			XXX	
		Nickel			XXX			XXX	
		Silver			XXX			XXX	
		Thallium			XXX			XXX	
		Vanadium			XXX			XXX	
		Zinc			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE K - TALC CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Minewater			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
10	Hydrides	Antimony			XXX			XXX	
		Arsenic		XXX			XXX		XXX
		Selenium			XXX			XXX	
11	Chromium (Hexavalent)	Chromium (Hexavalent)			XXX			XXX	
12	Mercury	Mercury			XXX			XXX	
14	Phenolics (4AAP)	Phenolics (4AAP)		XXX			XXX		XXX
15	Sulphide	Sulphide			XXX			XXX	
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane			XXX			XXX	
		1,1,2-Trichloroethane			XXX			XXX	
		1,1-Dichloroethane			XXX			XXX	
		1,1-Dichloroethylene			XXX			XXX	
		1,2-Dichlorobenzene			XXX			XXX	
		1,2-Dichloroethane (Ethylene dichloride)			XXX			XXX	
		1,2-Dichloropropane			XXX			XXX	
		1,3-Dichlorobenzene			XXX			XXX	
		1,4-Dichlorobenzene			XXX			XXX	
		Bromoform			XXX			XXX	
		Bromomethane			XXX			XXX	
		Carbon tetrachloride			XXX			XXX	
		Chlorobenzene			XXX			XXX	
		Chloroform			XXX			XXX	
		Chloromethane			XXX			XXX	
		Cis-1,3-Dichloropropylene			XXX			XXX	
		Dibromochloromethane			XXX			XXX	
		Ethylene dibromide			XXX			XXX	
		Methylene chloride			XXX			XXX	
		Tetrachloroethylene (Perchloroethylene)			XXX			XXX	
		Trans-1,2-Dichloroethylene			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE K - TALC CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Minewater			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
16	Volatiles, Halogenated (continued)	Trans-1,3-Dichloropropylene			XXX			XXX	
		Trichloroethylene			XXX			XXX	
		Trichlorofluoromethane			XXX			XXX	
		Vinyl chloride (Chloroethylene)			XXX			XXX	
17	Volatiles, Non-Halogenated	Benzene			XXX			XXX	
		Styrene			XXX			XXX	
		Toluene			XXX			XXX	
		o-Xylene			XXX			XXX	
		m-Xylene and p-Xylene			XXX			XXX	
19	Extractables, Base Neutral	Acenaphthene			XXX			XXX	
		5-nitro Acenaphthene			XXX			XXX	
		Acenaphthylene			XXX			XXX	
		Anthracene			XXX			XXX	
		Benz(a)anthracene			XXX			XXX	
		Benzo(a)pyrene			XXX			XXX	
		Benzo(b)fluoranthene			XXX			XXX	
		Benzo(g,h,i)perylene			XXX			XXX	
		Benzo(k)fluoranthene			XXX			XXX	
		Camphene			XXX			XXX	
		1-Chloronaphthalene			XXX			XXX	
		2-Chloronaphthalene			XXX			XXX	
		Chrysene			XXX			XXX	
		Dibenz(a,h)anthracene			XXX			XXX	
		Fluoranthene			XXX			XXX	
		Fluorene			XXX			XXX	
		Indeno(1,2,3-cd)pyrene			XXX			XXX	
		Indole			XXX			XXX	
		1-Methylnaphthalene			XXX			XXX	
		2-Methylnaphthalene			XXX			XXX	
		Naphthalene			XXX			XXX	
		Perylene			XXX			XXX	
		Phenanthrene			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE K - TALC CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Minewater			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
19	Extractables, Base Neutral (continued)	Pyrene			XXX			XXX	
		Benzyl butyl phthalate			XXX			XXX	
		Bis(2-Ethylhexyl) phthalate			XXX			XXX	
		Di-n-butyl phthalate			XXX			XXX	
		4-Bromophenyl phenyl ether			XXX			XXX	
		4-Chlorophenyl phenyl ether			XXX			XXX	
		Bis(2-Chloroisopropyl)ether			XXX			XXX	
		Bis(2-Chloroethyl)ether			XXX			XXX	
		2,4-Dinitrotoluene			XXX			XXX	
		2,6-Dinitrotoluene			XXX			XXX	
		Bis(2-Chloroethoxy)methane			XXX			XXX	
		Diphenylamine			XXX			XXX	
		N-Nitrosodiphenylamine			XXX			XXX	
		N-Nitrosodi-n-propylamine			XXX			XXX	
20	Extractables, Acid (Phenolics)	2,3,4,5-Tetrachlorophenol			XXX			XXX	
		2,3,4,6-Tetrachlorophenol			XXX			XXX	
		2,3,5,6-Tetrachlorophenol			XXX			XXX	
		2,3,4-Trichlorophenol			XXX			XXX	
		2,3,5-Trichlorophenol			XXX			XXX	
		2,4,5-Trichlorophenol			XXX			XXX	
		2,4,6-Trichlorophenol			XXX			XXX	
		2,4-Dimethyl phenol			XXX			XXX	
		2,4-Dinitrophenol			XXX			XXX	
		2,4-Dichlorophenol			XXX			XXX	
		2,6-Dichlorophenol			XXX			XXX	
		4,6-Dinitro-o-cresol			XXX			XXX	
		2-Chlorophenol			XXX			XXX	
		4-Chloro-3-methylphenol			XXX			XXX	
		4-Nitrophenol			XXX			XXX	
		m-Cresol			XXX			XXX	
		o-Cresol			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE K - TALC CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Minewater			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
20	Extractables, Acid (Phenolics) (continued)	p-Cresol			XXX			XXX	
		Pentachlorophenol			XXX			XXX	
		Phenol			XXX			XXX	
24	Chlorinated Dibenzo-p-dioxins and Dibenzofurans (but see section 10)	2,3,7,8-Tetrachlorodibenzo-p-dioxin							
		Octachlorodibenzo-p-dioxin							
		Octachlorodibenzofuran							
		Total heptachlorinated dibenzo-p-dioxins							
		Total heptachlorinated dibenzofurans							
		Total hexachlorinated dibenzo-p-dioxins							
		Total hexachlorinated dibenzofurans							
		Total pentachlorinated dibenzo-p-dioxins							
		Total pentachlorinated dibenzofurans							
		Total tetrachlorinated dibenzo-p-dioxins							
		Total tetrachlorinated dibenzofurans							
25	Solvent Extractables	Oil and grease	XXX			XXX			XXX
27	Polychlorinated Biphenyls (but see subsection 9(6))	PCBs (Total)			XXX			XXX	
28a	Open Characterization - Volatiles				XXX			XXX	
28b	Open Characterization - Extractables				XXX			XXX	
29	Open Characterization - Elemental	Aluminum			XXX			XXX	
		Antimony			XXX			XXX	
		Arsenic			XXX			XXX	
		Barium			XXX			XXX	
		Beryllium			XXX			XXX	
		Bismuth			XXX			XXX	
		Boron			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE K - TALC CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Minewater			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
29	Open Characterization - Elemental (continued)	Cadmium			XXX			XXX	
		Calcium			XXX			XXX	
		Cerium			XXX			XXX	
		Cesium			XXX			XXX	
		Chromium			XXX			XXX	
		Cobalt			XXX			XXX	
		Copper			XXX			XXX	
		Dysprosium			XXX			XXX	
		Erbium			XXX			XXX	
		Europium			XXX			XXX	
		Gadolinium			XXX			XXX	
		Gallium			XXX			XXX	
		Germanium			XXX			XXX	
		Gold			XXX			XXX	
		Hafnium			XXX			XXX	
		Holmium			XXX			XXX	
		Indium			XXX			XXX	
		Iridium			XXX			XXX	
		Iron			XXX			XXX	
		Lanthanum			XXX			XXX	
		Lead			XXX			XXX	
		Lithium			XXX			XXX	
		Lutetium			XXX			XXX	
		Magnesium			XXX			XXX	
		Manganese			XXX			XXX	
		Mercury			XXX			XXX	
		Molybdenum			XXX			XXX	
		Neodymium			XXX			XXX	
		Nickel			XXX			XXX	
		Niobium			XXX			XXX	
		Osmium			XXX			XXX	
		Palladium			XXX			XXX	
		Phosphorus			XXX			XXX	
		Platinum			XXX			XXX	

EFFLUENT MONITORING REGULATION - INDUSTRIAL MINERALS SECTOR
SCHEDULE K - TALC CATEGORY

		EFFLUENT STREAM TYPE:	Quarry Water			Minewater			Storm Water
		FREQUENCY OF SAMPLING:	3W	M	SA/A	3W	M	SA/A	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
29	Open Characterization - Elemental (continued)	Potassium			XXX			XXX	
		Praesodymium			XXX			XXX	
		Rhenium			XXX			XXX	
		Rhodium			XXX			XXX	
		Rubidium			XXX			XXX	
		Ruthenium			XXX			XXX	
		Samarium			XXX			XXX	
		Scandium			XXX			XXX	
		Selenium			XXX			XXX	
		Silicon			XXX			XXX	
		Silver			XXX			XXX	
		Sodium			XXX			XXX	
		Strontium			XXX			XXX	
		Sulfur			XXX			XXX	
		Tantalum			XXX			XXX	
		Tellurium			XXX			XXX	
		Terbium			XXX			XXX	
		Thallium			XXX			XXX	
		Thorium			XXX			XXX	
		Thulium			XXX			XXX	
		Tin			XXX			XXX	
		Titanium			XXX			XXX	
		Tungsten			XXX			XXX	
		Uranium			XXX			XXX	
		Vanadium			XXX			XXX	
		Ytterbium			XXX			XXX	
		Yttrium			XXX			XXX	
		Zinc			XXX			XXX	
		Zirconium			XXX			XXX	
IM2	Fibrous Chrysotile	Fibrous Chrysotile			XXX			XXX	

SCHEDULE L - SAMPLING PRINCIPLES

Column 1 ANALYTICAL TEST GROUP	Column 2 LABORATORY SAMPLE CONTAINER	Column 3 LABORATORY CONTAINER PRE-TREATMENT	Column 4 TEST SPECIFIC SAMPLING PRECAUTIONS	Col. 5 MIN. SAM. VOL.	Column 6 PRESERVATION METHOD	Column 7 MAX. STORAGE TIME (DAYS)
Chloride IM1	Sample containers and caps/ liners must be composed only of one or more of the following materials: fluorocarbon resin, polyethylene terephthalate, glass, polystyrene, polypropylene, high or low density polyethylene. Metallic foil should not be used.	Generally no pre-treatment required for new containers.	If sample is high (>5%) in hydrocarbons or organic solvents, use glass or fluorocarbon resin sample container only.	50mL	None	28
Fibrous Chrysotile IM2	Plastic container, never used before.	See Analytical Test Group IM1	Do not agitate so that clusters are not broken into fibres.	1L	None	2 before filtration, unlimited after
Fluoride IM3	See Analytical Test Group IM1	See Analytical Test Group IM1	See Analytical Test Group IM1	50 mL	See Analytical Test Group IM1	28
Sulphate IM4	See Analytical Test Group IM1	See Analytical Test Group IM1	See Analytical Test Group IM1	50mL	None	28

SCHEDULE M - ANALYTICAL PRINCIPLES & ANALYTICAL METHOD DETECTION LIMITS

Column 1 ANALYTICAL TEST GROUP #	Column 2 PARAMETERS CONVENTIONAL AND METAL PARAMETERS	Column 3 SAMPLE PREPARATION METHOD PRINCIPLES	Column 4 INSTRUMENTAL MEASUREMENT METHOD PRINCIPLES	Column 5 ALTERNATE INSTRUMENTAL MEASUREMENT METHOD PRINCIPLES	Column 6 ANALYTICAL METHOD DETECTION LIMITS
IM1	Chloride	Preparation for measurement system as appropriate	Ion Chromatography or Colourimetry or Titration	N/A	2 mg/L
IM2	Fibrous Chrysotile	Filtration onto membrane filter	Transmission Electron microscopy Electron diffraction	N/A	0.04 million fibres/L
IM3	Fluoride	See Analytical Test Group IM1	Colourimetry or Specific Ion Electrode	N/A	0.1 mg/L
IM4	Sulphate	See Analytical Test Group IM1	Ion Chromatography		5 as sulphate

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